



DECKBLATT

	Projekt	PSP-Element	Obj. Kenn.	Aufgabe	UA	Lfd. Nr.	Rev.
	N A A N	N N N N N N N N N N	N N N N N N	X A A X X	A A	N N N N	N N
EU 072.7	9K			E	RB	0002	00

Titel der Unterlage: Zeitliche Entwicklung der Radionuklidzusammensetzung und Aktivität im Endlager Konrad während der Betriebszeit und der Nachbetriebsphase
PTB-SE-184

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PL

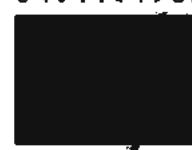
04.11.1986



Freigabe für Behörden

PL

04.11.1986



Freigabe im Projekt

Diese Unterlage unterliegt samt Inhalt dem Schutz des Urheberrechts sowie der Pflicht zur vertraulichen Behandlung auch bei Beförderung und Vernichtung und darf vom Empfänger nur auftragsbezogen genutzt, vervielfältigt und Dritten zugänglich gemacht werden. Eine andere Verwendung und Weitergabe bedarf der ausdrücklichen Zustimmung der PTB.

Revisionsblatt



	Projekt	PSP-Element	Obj. Kenn.	Aufgabe	UA	Lfd. Nr.	Rev.
EU 072.7	N A A N	N N N N N N N N N N	N N N N N N	X A A X X	A A	N N N N	N N
	9K			E	RB	0002	00

Titel der Unterlage: Zeitliche Entwicklung der Radionuklidzusammensetzung und Aktivität im Endlager Konrad während der Betriebsphase und der Nachbetriebsphase PTB-SE-IB4	Seite: II.
	Stand: 11/1985

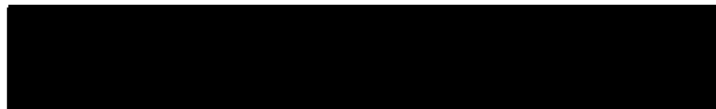
Rev.	Revisionsst. Datum	verant. Stelle	Gegenzeichn. Name	rev. Seite	Kat. *)	Erläuterung der Revision

*) Kategorie R = redaktionelle Korrektur
 Kategorie V = verdeutlichende Verbesserung
 Kategorie S = substantielle Änderung
 Mindestens bei der Kategorie S müssen Erläuterungen angegeben werden.

P H Y S I K A L I S C H - T E C H N I S C H E
B U N D E S A N S T A L T

Abteilung Sicherstellung und Endlagerung radioaktiver Abfälle

I N T E R N E R A R B E I T S B E R I C H T



Zeitliche Entwicklung der Radionuklidzusammensetzung und Aktivität im Endlager Konrad während der Betriebszeit und der Nachbetriebsphase

Braunschweig, November 1985

PTB-SE-IB-4

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1. Einleitung

Die in /1/ aufgeführten Daten radioaktiver Abfälle enthalten die Radionuklidzusammensetzungen und -aktivitäten der einzulagernden Abfallgebinde, wie sie zum Zeitpunkt der Einlagerung gültig sind. Die zu den jeweiligen Abfällen gehörigen radionuklidspezifischen Aktivitäten im Endlager ändern sich jedoch zum einen dadurch, daß durch den Einlagerungsvorgang ständig Radionuklide hinzukommen, zum anderen dadurch, daß sich Radionuklide durch den radioaktiven Zerfall in Tochternuklide umwandeln. Die jeweils vorhandenen Inventare sind somit durch das jährlich eingelagerte Abfallaufkommen und durch den radioaktiven Zerfall bestimmt.

Die Grundlagen für die Rechnungen sind hinsichtlich Herkunft und Abfallmengen in Kap. 2 und 3, hinsichtlich Radionuklidzusammensetzung und -aktivität einschließlich notwendiger Ergänzungen in Kap. 4 beschrieben.

Der Bericht hat zum Ziel, quantitative Angaben in Tabellenform über die Entwicklung der Radionuklidinventare während der Einlagerungsphase über einen Zeitraum von 22 Jahren und in der Nachbetriebsphase bis 10 Millionen Jahre nach Beendigung der Einlagerung zur Verfügung zu stellen.

2. Zur Einlagerung in das Endlager Konrad vorgesehene radioaktive Abfälle

In die Schachtanlage Konrad werden radioaktive Abfälle aus

- Wiederaufarbeitungsanlagen (W),
- Kernkraftwerken (K),
- Großforschungseinrichtungen (F),
- Landessammelstellen (L),
- der Industrie (I),
- der Stilllegung kerntechnischer Anlagen (S) und
- sonstiger Herkunft (U)

eingelagert. Radioaktive Abfälle sonstiger Herkunft stammen z.B. aus der pharmazeutischen Industrie.

Eine Übersicht über die in die Schachtanlage Konrad einzulagernden radioaktiven Abfälle ist in Tab. 1 - 7 zusammengestellt, wobei Angaben zum Behältertyp, zur Fixierung und zur Abfallart gemacht werden. Darüberhinaus sind Moderator- und Absorberkugeln aus Kernkraftwerken bei der Kumulierung berücksichtigt worden, um die tritiumhaltigen Abfälle nicht unterzubewerten.

Die Abfälle sind kategorisiert worden, die Datenbasis, die in die Sicherheitsanalysen einfließt, ist in /1/ beschrieben.

Aufgrund des mittleren Abfallmengenaufkommens (s. Kap. 3) sind aus den in /1/ aufgeführten Datenblättern 165 Referenzabfälle ausgewählt worden und zur Einlagerung in das Endlager Konrad vorgesehen. Die Aufgliederung dieser Referenzabfälle auf die Herkunft ist in Tab. 8 zusammengestellt.

Behälter	Fixierung	Abfallart
Betonbehälter Container	Zement/Beton	Filterharze, Kieselgel
Betonbehälter	Zement/Beton	Schwebstofffilter
Betonbehälter	Zement/Beton	Fasermattenfilter, Kerzenfilter, sonstige Filter
Betonbehälter Container	Zement/Beton	Konzentrate aus Dekontaminations- und Prozeßabwässern
Betonbehälter Container	Zement/Beton	Rückstände aus der Verbrennung
Betonbehälter Container	Zement/Beton	Schrott
Container	Zement/Beton	Schrott und paketierte Filter
Betonbehälter	Zement/Beton	Sorptionsmaterial
Container	Zement/Beton	Lösemittel- und Produktfilter
Container	Zement/Beton	Bauschutt, Strahlsand
Container	Zement/Beton	Feste, z. T. brennbare Pu-haltige Abfälle aus der Mischoxidbrennelement-Herstellung
Tab 1: Radioaktive Abfälle aus der Wiederaufarbeitung abgebrannter Brennelemente		

Behälter	Fixierung	Abfallart
Betonbehälter	organisches Fixierungsmittel	Dekontaminations- und Prozeßabwässer, organische Abfälle
Betonbehälter	Zement/Beton	Kontaminierte Feststoffe
Betonbehälter	Zement/Beton	Plutoniumhaltige Feststoffe
Tab 2: Radioaktive Abfälle aus der Wiederaufarbeitung abgebrannter deutscher Brennelemente im Ausland		

Behälter	Fixierung	Abfallart
Gußbehälter	keine	Kugelharze der Primärkühlmittel- und Brennelementlagerbeckenreinigung
Betonbehälter	organisches Fixierungsmittel	
Gußbehälter	keine	Pulverharze der Primärkühlmittel- und Brennelementlagerbeckenreinigung
Betonbehälter	Zement/Beton	
Gußbehälter	keine	Filterkerzen
Betonbehälter	Zement/Beton	
Container	Zement/Beton	
Gußbehälter	keine	Filter- und Verdampferkonzentrate, Filterhilfsmittel
Betonbehälter	Zement/Beton	
Container	Zement/Beton	
Container	Zement/Beton	Filtermaterialien
Gußbehälter	keine	Meßblanzen
Gußbehälter	keine	Brennelementkästen
Gußbehälter	keine	Steuerelemente
Gußbehälter	keine	Aktivierte, kontaminierte, formbeständige Feststoffe
Betonbehälter	Zement/Beton	
Container	Zement/Beton	
Gußbehälter	keine	Veraschte Feststoffe
Betonbehälter	Zement/Beton	
Container	Zement/Beton	
Gußbehälter	keine	Z. T. preßbare kontaminierte Feststoffe
Betonbehälter	Zement/Beton	
Container	Zement/Beton	
Container	keine	
Container	Zement/Beton	Kleinschrott, Bauschutt, Schlämme und Sand
Tab 3: Radioaktive Abfälle aus dem Betrieb von Kernkraftwerken		

Behälter	Fixierung	Abfallart
Container	Zement/Beton	Rückstände aus Verbrennung und Pyrolyse
Betonbehälter	Zement/Beton	Abwässer, Konzentrate, Schlämme und Organica
Container	Zement/Beton	
Container	organisches Fixierungsmittel	
Gußbehälter	keine	Strahlenquellen
Gußbehälter	keine	Feste Komponenten, Schrott, Luftfilter, Isoliermaterial, Bauschutt und Erdreich
Betonbehälter	Zement/Beton	
Container	Zement/Beton	
Container	keine	
Container	Zement/Beton	Verbrennungsrückstände und Verdampferkonzentrate
Betonbehälter	Zement/Beton	Kontaminierte, aktivierte Feststoffe
Container	keine	
Tab 4: Radioaktive Abfälle aus Großforschungseinrichtungen und Landessammelstellen		

Behälter	Fixierung	Abfallart
Container	Zement/Beton	Pastöse, fixierbare, U-haltige Abfälle
Container	Zement/Beton	Pastöse, feste, fixierbare Th- und U-haltige Abfälle
Container	keine	Feste, preßbare, z. T. brennbare Abfälle (Th-, U- oder Pu-haltig)
Betonbehälter	Zement/Beton	Feste, fixierbare, z. T. schwer brennbare, Pu-haltige Abfälle
Container	Zement/Beton	
Container	Zement/Beton	Feste, fixierbare, z. T. brennbare Abfälle
Betonbehälter	Zement/Beton	Getrocknete Schlämme
Betonbehälter	Zement/Beton	Sperrige, fixierbare, kompaktierbare, z. T. brennbare Abfälle
Container	Zement/Beton	
Container	keine	Preßbare, kompaktierbare, z. T. brennbare Abfälle
Tab 5: Radioaktive Abfälle aus der Industrie		

Behälter	Fixierung	Abfallart
Gußbehälter	keine	Aktivierte, kontaminierte, formbeständige Metallteile aus kernnahen Bereichen
Gußbehälter	keine	Aktivierte, kontaminierte, formbeständige Metallteile
Betonbehälter	Zement/Beton	
Container	Zement/Beton	
Container	keine	
Gußbehälter	keine	Aktivierte, kontaminierte Feststoffe
Betonbehälter	Zement/Beton	
Container	Zement/Beton	
Container	keine	
Betonbehälter	Zement/Beton	Dekontaminationsflüssigkeiten und Abfälle aus der Wasserreinigung
Container	Zement/Beton	
Tab 6: Radioaktive Abfälle aus der Stilllegung kerntechnischer Anlagen		

Behälter	Fixierung	Abfallart
Container	Zement/Beton	Feste, z. T. flüssige, konzentrierbare, z. T. brennbare, preßbare, fixierbare Mischabfälle
Container	Zement/Beton	Strahlenquellen
Container	keine	Feste, z. T. brennbare, z. T. preßbare Abfälle
Container	Zement/Beton	Feste, z. T. schwer brennbare Abfälle, Glasbruch
Container	keine	Chemische-pharmazeutische Abfälle
Container	keine	Fasermattenfilter
Tab 7: Radioaktive Abfälle sonstiger Herkunft		

	Anzahl der Datenblätter
F-Abfälle	25
I-Abfälle	20
K-Abfälle	55
L-Abfälle	2
S-Abfälle	37
U-Abfälle	8
W-Abfälle	18
Σ 165	

Tab. 8: Herkunft und Anzahl der für die Kumulierung zugrundegelegten radioaktiven Abfälle auf der Basis von Datenblättern

3. Mittleres Abfallmengenaufkommen

Die Ermittlung der Abfallgebindeanzahlen ist auf der Grundlage der Datenblätter in /1/ erfolgt. Die der Kumulierung zugrundeliegende Zusammenstellung ist eine Überarbeitung und berücksichtigt den Stand 9/84.

Für das mittlere Mengenaufkommen sind verschiedene Annahmen gemacht worden (s. /2/), wobei das unterstellte Abfallmengenaufkommen für den Zeitraum 1979 - 2000 zu einem Abfallgebindevolumen von ca. 498.000 m³ führt und damit der Kapazität des Endlagers Konrad entspricht. Dadurch reduziert sich auch die Anzahl der Abfälle auf 165 zu betrachtende Datenblätter.

Die wichtigsten Annahmen für das mittlere Abfallmengenaufkommen sind:

1. Es werden zeitlich konstante Abfallmengen für die Abfälle aus den Landessammelstellen, den Großforschungseinrichtungen und der Industrie unterstellt.
2. Bei der Festlegung der Mengen bei den Kernkraftwerksabfällen ist von dem in Tab. 9 aufgeführten Bestand an Kernkraftwerken ausgegangen worden.
3. Es werden die Stilllegungsabfälle von FR2, HDR, KKN, VAK und Otto Hahn berücksichtigt, wobei die anfallenden Abfälle auf 5 Jahre (1989 - 1993) verteilt worden sind.
4. Die Wiederaufarbeitungsabfälle fallen ab 1990 von der Cogema und ab 1993 von der DWK an.

Zur Vereinfachung der Rechnungen sind die jährlich angegebenen Abfallmengen der 165 Abfälle zu drei Zeitschritten zusammengefaßt (1979 - 1985, 1986 - 1992, 1993 - 2000) und behälterspezifisch zusammengestellt worden. Die entsprechenden Abfallgebindeanzahlen sind in Tab. 10 aufgeführt.

Jahr	DWR	SWR
1979	5	3
1980	5	3
1981	5	3
1982	6	3
1983	6	3
1984	6	4
1985	7	5
1986	8	5
1987	9	5
1988	10	5
1989	12	5
1990	12	5
1991	13	5
1992	14	5
1993	15	5
1994	15	5
1995	15	5
1996	16	5
1997	16	5
1998	16	5
1999	17	5
2000	17	5

Tab. 9: Bestand an Leichtwasserreaktoren in der Bundesrepublik Deutschland

LFD.NR.	KODIERUNG	BL.NR./F.-BL.NR.	ANZAHL DER BEHAELTER:			
			JAHRE: 1-7	8-14	15-22	1-22
=====						
BEHAELTER: FASS 200 L						
1	L52010NRWO	L 1/1	1050	1050	1200	3300
2	L54020NRWO	L 2/1	140	140	160	440
3	U520100BWO	U 1/1	840	840	960	2640
4	U520200BWO	U 2/1	35	35	40	110
5	U52040HOBO	U 5/1	21	21	24	66
6	U540300BWO	U 3/1	210	210	240	660
7	U54050HOBO	U 6/1	182	182	208	572
8	U54060HOBO	U 7/1	21	21	24	66
9	I52010NUKO	I 3/1	210	210	240	660
10	I52010RBUO	I 1/1	21	21	24	66
11	I52030NUKO	I 4/1	140	140	160	440
12	I52070EXXO	I 7/1	21	21	24	66
13	I52090KWUO	I 15/1	420	420	480	1320
14	I54100KWUO	I 16/1	140	140	160	440
15	I54020EXXO	I 6/1	140	140	160	440
16	I54020RBUO	I 2/1	175	175	200	550
17	I54020URAO	I 8/1	0	200	320	520
18	I54040NUKO	I 5/1	70	70	80	220
19	I54060ALKO	I 12/1	70	70	80	220
20	I52050ALKO	I 11/1	350	350	400	1100
21	K52110DSRO	K 22/1	960	1800	2625	5385
22	K52110HTRO	K 37/1	0	770	880	1650
23	K52120DSRO	K 24/1	143	265	384	792
24	K52120AVRO	K 33/1	24	6	0	30
25	K52120HTRO	K 38/1	0	49	56	105
26	K52140AVRO	K 35/1	96	24	0	120
27	K52150AVRO	K 36/1	8	2	0	10
28	K52160HTRO	K 40/1	0	3360	3840	7200
29	K52030AVRO	K 31/1	8	2	0	10
30	K52040DWRO	K 11/1	1666	3250	5292	10208
31	K52050SWRO	K 15/1	3200	5600	6400	15200
32	K52070AVRO	K 32/1	32	8	0	40
33	K54130DSRO	K 25/1	1066	2000	2917	5983
34	K54130AVRO	K 34/1	160	40	0	200
35	K54130HTRO	K 39/1	0	91	104	195
36	K54130SNRO	K 30/1	0	250	400	650
37	F52020KFKO	F 1/1	700	700	800	2200
38	F52030KFAO	F 22/1	2240	2240	2560	7040
39	F52040KFKO	F 9/1	14	14	16	44
40	F5208AKFKO	F 18/1	15750	15750	18000	49500
41	F5208BKFKO	F 19/1	1610	1610	1840	5060
42	F54070KFAO	F 25/1	2800	2800	3200	8800
43	F54080KFKO	F 20/1	1400	1400	1600	4400
44	S52020FR20	S 3/1	0	68	17	85
45	S52020HDRO	S 7/1	0	1136	284	1420
46	S52030FR20	S 6/1	0	352	88	440
47	S52040OHAO	S 15/1	0	40	10	50
48	S54030OHAO	S 13/1	0	128	32	160
			36133	48211	56529	140873

Tab. 10: Abfallgebändeanzahl je Datenblatt, aufgeschlüsselt auf die Behältertypen.

LFD.NR.	KODIERUNG	BL.NR./F.-BL.NR.	ANZAHL DER BEHAELTER:			
			JAHRE: 1-7	8-14	15-22	1-22
=====						
BEHAELTER: FASS 400 L						
1	I52010RBUO	I 1/2	21	21	24	66
2	I52070BXXO	I 7/2	21	21	24	66
3	I52090KWUO	I 15/2	420	420	480	1320
4	I54100KWUO	I 16/2	140	140	160	440
5	W52100WAAO	W 6/1	0	0	736	736
6	W52110WAAO	W 7/1	0	0	2856	2856
7	W52140WAAO	W 10/1	0	0	800	800
8	W52150WAAO	W 11/1	0	0	4000	4000
9	W52080WAAO	W 2/1	0	0	11664	11664
10	W52090WAAO	W 4/1	0	0	1496	1496
11	K52110DSRO	K 22/2	960	1800	2625	5385
12	K52120DSRO	K 24/2	143	265	384	792
13	K52040DWRO	K 11/2	1666	3250	5292	10208
14	K52050SWRO	K 15/2	3200	5600	6400	15200
15	K54130DSRO	K 25/2	1066	2000	2917	5983
16	K54130SNRO	K 30/2	0	250	400	650
17	S52020FR20	S 3/2	0	68	17	85
18	S52030FR20	S 6/2	0	352	88	440
19	S54030OHAO	S 13/2	0	128	32	160
			7637	14315	40395	62347

BEHAELTER: VBA - 200 L NB

1	U42020HORO	U 4/1	7	7	8	22
2	I42050ALKO	I 10/1	350	350	400	1100
3	I42070URAO	I 9/1	0	300	480	780
4	K42060SNRO	K 28/1	0	3000	4800	7800
5	K42120AVRO	K 45/1	24	6	0	30
6	K42130AVRO	K 48/1	56	14	0	70
7	F42040KFAO	F 23/1	70	70	80	220
			507	3747	5768	10022

BEHAELTER: VBA - 200 L SB

1	I42080KWUO	I 13/1	7	7	8	22
2	K42110DSRO	K 21/1	640	1200	1750	3590
3	K42120DSRO	K 23/1	7	15	24	46
4	K42020SWRO	K 5/1	2097	3675	4200	9972
5	K42030DWRO	K 7/1	640	1024	2256	3920
6	K42040DWRO	K 10/1	866	1690	2752	5308
7	K42050SWRO	K 14/1	1040	1820	2080	4940
8	F4204AKFKO	F 3/1	406	406	464	1276
9	F4204BKFKO	F 6/1	11025	11025	12600	34650
10	F42070KFAO	F 24/1	140	140	160	440
11	F4208AKFKO	F 12/1	350	350	400	1100
12	F4208BKFKO	F 14/1	301	301	344	946
13	F4208CKFKO	F 16/1	105	105	120	330
14	S42020FR20	S 2/1	0	60	15	75
15	S42030FR20	S 5/1	0	80	20	100
16	S42020KKNO	S223/1	0	600	150	750
			17624	22498	27343	67465

LFD.NR. - KODIERUNG BL.NR./F.-BL.NR. JAHRE: 1-7 8-14 15-22 1-22
 ANZAHL DER BEHAELTER:
 =====

BEHAELTER: VBA - 400 L NB

			1-7	8-14	15-22	1-22
1	U42020H0E0	U 4/2	7	7	8	22
2	S420400HAA0	S 14/1	4	1	1	6
			11	8	9	28

BEHAELTER: VBA - 400 L SB

1	K42110DSR0	K 21/2	640	1200	1750	3590
2	K42120DSR0	K 23/2	7	15	24	46
3	K42020SWR0	K 5/2	2097	3675	4200	9972
4	K42040DWR0	K 10/2	866	1690	2752	5308
5	K42050SWR0	K 14/2	1040	1820	2080	4940
6	S42020FR20	S 2/2	0	60	15	75
7	S42030FR20	S 5/2	0	80	20	100
			4650	8540	10841	24031

BEHAELTER: DWK - VBA - 400 NB

1	W42100WAA0	W 5/1	0	0	80	80
2	W42110CBNO	W 13/1	0	4290	10010	14300
3	W42150CBNO	W 14/1	0	2850	6650	9500
4	W42090WAA0	W 3/1	0	0	1392	1392
5	W42120WAA0	W 8/1	0	0	112	112
6	W42130WAA0	W 9/1	0	0	96	96
			0	7140	18340	25480

BEHAELTER: DWK - VBA - 400 SB

1	W42060WAA0	W 17/1	0	0	1088	1088
2	W42070WAA0	W 18/1	0	0	1376	1376
3	W42080WAA0	W 1/1	0	0	18960	18960
4	W4205BWAA0	W 16/1	0	0	160	160
5	W4205AWAA0	W 15/1	0	0	32	32
			0	0	21616	21616

BEHAELTER: DWK - VBA - 200 IN 400SB

1	W43080CBNO	W 12/1	0	1935	4515	6450
			0	1935	4515	6450

Tab. 10: Fortsetzung

ANZAHL DER BEHAELTER:

LFD.NR.	KODIERUNG	BL.NR./F.-BL.NR.	JAHRE: 1-7	8-14	15-22	1-22
=====						
BEHAELTER: GUSSBH. TYP I, 15/0						

1	K24120AVRO	K 46/1	16	4	0	20
2	K24130AVRO	K 47/1	24	6	0	30
			40	10	0	50

BEHAELTER: GUSSBH. TYP I, 15/8

1	S2401CVAKO	S 73/1	0	4	1	5
2	S24030FR20	S 4/1	0	44	11	55
			0	48	12	60

BEHAELTER: GUSSBH. TYP I, 15/10

1	K24100SWRO	K 18/1	480	840	960	2280
2	K24110DSRO	K 19/1	128	240	350	718
3	K24110SNRO	K 29/1	0	75	120	195
4	S2401BVAKO	S 72/1	0	28	7	35
5	S24010FR20	S 1/1	0	44	11	55
			608	1227	1448	3283

BEHAELTER: GUSSBH. TYP II, 16/0

1	I22090KWUO	I 14/1	14	14	16	44
2	K24040DWRO	K 8/1	466	980	1600	3046
3	K24050SWRO	K 12/1	1920	3360	3840	9120
4	K24060SNRO	K 27/1	0	125	200	325
5	K24180HTRO	K 51/1	0	910	1040	1950
6	K24170HTRO	K 52/1	0	210	240	450
7	S2401AVAKO	S 71/1	0	16	4	20
8	S2401DVAKO	S 74/1	0	4	1	5
			2400	5619	6941	14960

BEHAELTER: GUSSBH. TYP II, 16/2

1	K24010DWRO	K 1/1	80	156	254	490
2	K23010DWRO	K 2/1	480	936	1524	2940
			560	1092	1778	3430

Tab. 10: Fortsetzung

LFD.NR.	KODIERUNG	BL.NR./F.-BL.NR.	ANZAHL DER BEHAELTER:			
			JAHRE: 1-7	8-14	15-22	1-22
=====						
BEHAELTER: GUSSBH. TYP II, 16/4						
1	K24020SWRO	K 3/1	240	420	480	1140
2	K24030DWRO	K 6/1	80	156	254	490
3	S2401EVAKO	S 75/1	0	0	1	1
			320	576	735	1631

BEHAELTER: GUSSBH. TYP II, 16/6

1	K24090SWRO	K 17/1	960	1680	1920	4560
2	F24080KFKO	F 11/1	28	28	32	88
3	S24030FR20	S 4/2	0	44	11	55
			988	1752	1963	4703

BEHAELTER: GUSSBH. TYP II, 20/0

1	K24010DWRO	K 1/2	80	156	254	490
2	F24060KFKO	F 10/1	3	2	2	7
3	S24010OHAO	S 11/1	0	168	42	210
			83	326	298	707

BEHAELTER: GUSSBH. TYP II, 20/7

1	K24110DSRO	K 19/2	48	84	96	228
2	K24080SWRO	K 16/1	24	42	48	114
3	S2401BVAKO	S 72/2	0	28	7	35
			72	154	151	377

Tab. 10: Fortsetzung

LFD.NR.	KODIERUNG	BL.NR./F.-BL.NR.	ANZAHL DER BEHAELTER:			
			JAHRE: 1-7	8-14	15-22	1-22
=====						
BEHAELTER: CONT. STAHLBL., TYP II						
1	S6402AVAKO	S 76/1	0	2	0	2
2	S6402BVAKO	S 77/1	0	8	1	9
3	S6402CVAKO	S 78/1	0	20	5	25
4	S640200HAO	S 12/1	0	8	2	10
5	S6403CVAKO	S 81/1	0	7	2	9
			0	45	10	55

BEHAELTER: CONT. STAHLBL., TYP III

1	K62130DSRO	K 26/1	106	200	292	598
2	S6204AVAKO	S 82/1	0	18	4	22
3	S6204DVAKO	S 85/1	0	7	2	9
4	S640200HAO	S 12/2	0	8	2	10
5	S6403AVAKO	S 79/1	0	34	8	42
6	S6403BVAKO	S 80/1	0	6	2	8
7	S64030KKNO	S224/1	0	52	13	65
			106	325	323	754

BEHAELTER: CONT. STAHLBL., TYP IV

1	F64080KFKO	F 21/1	56	56	64	176
			56	56	64	176

BEHAELTER: CONT. BETON, TYP II, NB20

1	S6204BVAKO	S 83/1	0	5	0	5
2	S6204CVAKO	S 84/1	0	2	1	3
			0	7	1	8

BEHAELTER: CONT. BETON, TYP IV, NB

1	F6204AKFKO	F 4/1	217	217	248	682
2	F6208AKFKO	F 13/1	49	49	56	154
3	F6304AKFKO	F 5/1	280	280	320	880
			546	546	624	1716

BEHAELTER: CONT. BETON, TYP IV, SB

1	F62020KFKO	F 2/1	56	56	64	176
2	F6204BKFKO	F 7/1	700	700	800	2200
3	F6208BKFKO	F 15/1	42	42	48	132
4	F6208CKFKO	F 17/1	21	21	24	66
5	F6304BKFKO	F 8/1	882	882	1008	2772
			1701	1701	1944	5346

4. Radionuklidzusammensetzung und -aktivität

4.1 Zugrundeliegende Abfalldatenbasis für die behälterspezifischen Rechnungen

Wie im Kap. 2 erläutert, bilden die Abfalldaten aus /1/ die Grundlage für die Berechnung der zeitlichen Entwicklung der Aktivitäten der Abfallgebinde, die für das Endlager Konrad vorgesehen sind. Dabei sind in diesem Bericht nur die Abfälle berücksichtigt worden, die nach dem im Kap. 3 beschriebenen mittleren Mengenaufkommen im Endlager Konrad eingelagert werden sollen und volumenmäßig der Kapazität des Endlagers Konrad entsprechen, während in /1/ alle schwach wärmeentwickelnden Abfälle zusammengestellt sind. Die Datenblätter zu den radioaktiven Abfällen beruhen auf Angaben der Abfallverursacher, die Fixierung, Abfallart, Radionuklidzusammensetzung und Verpackung sowie in vielen Fällen Angaben zu sogenannten mittleren und oberen α - und β/γ -Werten der Aktivität von Abfallgebinden umfassen. Notwendige Ergänzungen der Datenbasis wie die Berücksichtigung von Tochternukliden und die Ergebnisse der Überprüfung der Abfallgebinde auf Einhaltung der Ortsdosisleistung sind in /1/ beschrieben und in den Abfalldatenblättern berücksichtigt.

Im vorliegenden Bericht sind die nuklidspezifischen Angaben der Datenblätter verwendet worden, d. h. es ist mit den sogenannten mittleren Werten für die α - und β/γ -Strahler gerechnet worden.

Wie in /1/ ausgeführt, sind für eine große Anzahl von Abfällen Aktivitätsangaben zu α - und β/γ -Strahlern nicht vollständig nuklidspezifisch aufgeschlüsselt.

Diese nicht spezifizierten Aktivitäten müssen für die jeweiligen Fragestellungen so interpretiert werden, daß die jeweiligen Aussagen konservativ sind. Die Kumulierung liefert Aussagen sowohl zur Aktivität als auch zur Wärmeleistung der Radionuklide im Endlager Konrad. Da jedoch für beide Aussagen konservative

Ergebnisse nicht durch die Wahl eines Radionuklids für die α - bzw. β/γ -Strahler zu erhalten sind, werden bei den behälterspezifischen Rechnungen die für die Wärmeleistung zum Zeitpunkt der Einlagerung relevanten Radionuklide, d. h. Po 212 bzw. Tl 208 für die unspezifizierten α - bzw. β/γ -Strahler, gewählt.

In den Abfalldatenblättern der W-Abfälle sowie der MOX-Abfälle der ALKEM fehlen in /1/ radionuklidspezifische Angaben zu Uran.

Nach /3/ enthalten die W-Abfälle, die in Konrad endgelagert werden sollen, ca. 2100 kg Uran jährlich. Auf der Basis von /3/ sind für die W-Abfälle unter Berücksichtigung der Abfallgebundenanzahl pro Jahr Uranmassen pro Abfallbinde errechnet worden.

Für 1 g Uran im Abfall ergeben sich unter der Annahme, daß in einzelnen Prozeßschritten der Wiederaufarbeitung keine Änderung der Verhältnisse der einzelnen Uranradionuklide zueinander erfolgt, die in Tab. 11 aufgeführten Radionuklidaktivitäten:

Radionuklide	Aktivität in Bq
U 233	1,51
U 234	$3,46 \cdot 10^3$
U 235	$6,46 \cdot 10^2$
U 236	$1,21 \cdot 10^4$
U 238	$1,22 \cdot 10^4$

Tab. 11: Verwendeter Radionuklidvektor für Uran

Mit diesem "Radionuklidvektor" sind die Aktivitäten für Uranradionuklide der für eine Einlagerung in Konrad vorgesehenen W-Abfälle berechnet worden. Die entsprechend korrigierten und mit dem Stand 5/85 versehenen Datenblätter sind auf den nächsten Seiten zusammengestellt.

Für die MOX-Abfälle der Wiederaufarbeitungsanlage (Datenblatt W 52150 WAA 0) ist die o. a. Uranzusammensetzung ebenfalls unterstellt worden.

Im Gegensatz dazu wird aufgrund telefonischer Angaben der ALKEM für die entsprechenden ALKEM-Abfälle nur U 238 mit einem Massenanteil von 0,72% U 235 angesetzt, wobei 300 g Uran pro 200-l-Faß entsprechend den Angaben des Abfallverursachers angenommen werden. Der daraus resultierende Urangehalt dieser Abfälle ist in den entsprechenden Datenblätter (Stand 5/85) der Abfälle I 4205 ALK O und I 52050 ALK O enthalten.

KODIERUNG: I 4 2 05 0 ALK 0

HERKUNFT (I) INDUSTRIE (ALKEM)
BEHAELTER (4) VBA
FIXIERUNG (2) ZEMENT/BETON
ABFALLART (05) FESTE, FIXIERBARE, Z. T. SCHWER BRENNBARE,
PU-HALTIGE ABFAELLE

ABFALLVOLUMEN IM GEBINDE : 200 L

ALTER DES ABFALL(REFERENZALTER): 1 A

AKTIVITAET DER ALPHA-STRAHLER PRO GEBINDE

MITTLERER WERT : 2.8E+11 BQ
OBERER WERT : 3.7E+11 BQ

AKTIVITAET DER BETA/GAMMA-STRAHLER PRO GEBINDE

MITTLERER WERT : 9.3E+12 BQ
OBERER WERT : 1.3E+13 BQ

RADIONUKLIDSPEZ. AKTIVITAET PRO GEBINDE IN BQ (A)

PU241 9.3E+12

U 235 1.8E+05
U 238 3.7E+06
PU238 2.0E+11
PU239 2.8E+10
PU240 4.4E+10
PU242 1.5E+08
AM241 7.0E+09

ORTSDOSISLEISTUNG IN 1.0 M ABSTAND VOM GEBINDE : 5.0E-06 SV/H
WAERMELEISTUNG PRO GEBINDE : 2.5E-01 W

BLATT-NUMMER : 10
FOLGEBLATT-NUMMER : 1
FAKT. F. OBEREN WERT : 1.00
FAKT. F. MITTLEREN WERT: 1.00
FAKT. F. NUKLIDSPEZ.AKT: 1.00
BEHAELTNIS : VBA - 200 L NB
RECHENANNAHME F. MATRIX: 1.8 G/CM**3 BETON

STAND: 5/85

KODIERUNG: I 5 2 05 0 ALK 0

HERKUNFT (I) INDUSTRIE (ALKEM)
BEHAELTER (5) FASS (A)
FIXIERUNG (2) ZEMENT/BETON
ABFALLART (05) FESTE, FIXIERBARE, Z. T. SCHWER BRENNBARE,
PU-HALTIGE ABFAELLE

ABFALLVOLUMEN IM GEBINDE : 200 L

ALTER DES ABFALL(REFERENZALTER): 1 A

AKTIVITAET DER ALPHA-STRAHLER PRO GEBINDE
MITTLERER WERT : 2.8E+11 BQ
OBERER WERT : 3.7E+11 BQ

AKTIVITAET DER BETA/GAMMA-STRAHLER PRO GEBINDE
MITTLERER WERT : 9.3E+12 BQ
OBERER WERT : 1.3E+13 BQ

RADIONUKLIDSPEZ. AKTIVITAET PRO GEBINDE IN BQ (B)
PU241 9.3E+12

U 235 1.8E+05
U 238 3.7E+06
PU238 2.0E+11
PU239 2.8E+10
PU240 4.4E+10
PU242 1.5E+08
AM241 7.0E+09

ORTSDOSISLEISTUNG IN 1.0 M ABSTAND VOM GEBINDE : 5.0E-06 SV/H
WAERMELEISTUNG PRO GEBINDE : 2.5E-01 W

BLATT-NUMMER : 11
FOLGEBLATT-NUMMER : 1
FAKT. F. OBEREN WERT : 1.00
FAKT. F. MITTLEREN WERT: 1.00
FAKT. F. NUKLIDSPEZ.AKT: 1.00
BEHAELTNIS : FASS 200 L
RECHENANNAHME F. MATRIX: 1.8 G/CM**3 BETON

STAND: 5/85

KODIERUNG: W 4 2 08 0 WAA 0

HERKUNFT (W) WIEDERAUFARBEITUNG (WA 350)
 BEHAELTER (4) VBA
 FIXIERUNG (2) ZEMENT/BETON
 ABFALLART (08) KONZENTRATE AUS DEKONTAMINATIONS- UND
 PROZESSABWAESSERN

ABFALLVOLUMEN IM GEBINDE : 400 L

ALTER DES ABFALL(REFERENZALTER): 7 A

AKTIVITAET DER ALPHA-STRAHLER PRO GEBINDE
 MITTLERER WERT : 1.4E+10 BQ
 OBERER WERT : 1.4E+10 BQ

AKTIVITAET DER BETA/GAMMA-STRAHLER PRO GEBINDE
 MITTLERER WERT : 5.7E+12 BQ
 OBERER WERT : 5.7E+12 BQ

RADIONUKLIDSPEZ. AKTIVITAET PRO GEBINDE IN BQ

SR 90	8.8E+11	PU241	2.6E+11 → 6,8 · 10 ⁻²
Y 90	8.8E+11		1.9E+11*
ZR 93	2.6E+07		
NB 93M	9.1E+06		
TC 99	2.0E+08	U 233	7.4E+02
RU106	7.5E+10	U 234	1.7E+06
RH106	7.5E+10	U 235	3.2E+05
AG110M	6.8E+07	U 236	6.0E+06
SN126	8.6E+06	U 238	6.0E+06
SB125	2.4E+10	PU238	1.1E+10
TE125M	1.0E+10	PU239	7.5E+08
I 129	1.7E+03	PU240	1.4E+09
CS134	3.9E+11		
CS135	4.0E+06		
CS137	1.3E+12		8.5E+08**
BA137M	1.2E+12		
CE144	3.3E+10		
PR144	3.3E+10		
PR144M	3.9E+08		
PM147	2.1E+11		
EU152	1.1E+08		
EU154	9.1E+10		
EU155	8.8E+09		

* SONSTIGE BETA/GAMMA-STRAHLER

** SONSTIGE ALPHA-STRAHLER

ORTSDOSISLEISTUNG IN 1.0 M ABSTAND VOM GEBINDE : 5.4E-05 SV/H
 WAERMELEISTUNG PRO GEBINDE : 6.2E-01 W

BLATT-NUMMER : 1
 FOLGEBLATT-NUMMER : 1
 FAKT. F. OBEREN WERT : 1.00
 FAKT. F. MITTLEREN WERT: 1.00
 FAKT. F. NUKLIDSPEZ.AKT: 1.00
 BEHAELTNIS : DWK - VBA - 400 SB
 RECHENANNAHME F. MATRIX: 1.8 G/CM**3 BETON

STAND: 5/85

KODIERUNG: W 5 2 08 0 WAA 0

HERKUNFT (W) WIEDERAUFARBEITUNG (WA 350)
 BEHAELTER (5) FASS
 FIXIERUNG (2) ZEMENT/BETON
 ABFALLART (08) KONZENTRATE AUS DEKONTAMINATIONS- UND PROZESS-
 ABWAESSERN

ABFALLVOLUMEN IM GEBINDE : 400 L

ALTER DES ABFALL(REFERENZALTER): 7 A

AKTIVITAET DER ALPHA-STRAHLER PRO GEBINDE

MITTLERER WERT : 2.2E+08 BQ
 OBERER WERT : 2.2E+08 BQ

AKTIVITAET DER BETA/GAMMA-STRAHLER PRO GEBINDE

MITTLERER WERT : 9.5E+09 BQ
 OBERER WERT : 9.5E+09 BQ

RADIONUKLIDSPEZ. AKTIVITAET PRO GEBINDE IN BQ

SR 90	9.0E+08	PU241	4.0E+09
Y 90	9.0E+08		2.8E+07*
ZR 93	2.7E+04		
NB 93M	9.3E+03		
TC 99	2.0E+05	U 233	5.7E-01
RU106	7.6E+07	U 234	1.3E+03
RH106	7.6E+07	U 235	2.5E+02
AG110M	6.9E+04	U 236	4.6E+03
SN126	8.7E+03	U 238	4.7E+03
SB125	2.5E+07	PU238	1.7E+08
TE125M	1.0E+07	PU239	1.1E+07
I 129	1.7E+00	PU240	2.1E+07
CS134	4.0E+08	AM241	1.4E+06
CS135	4.0E+03	CM244	6.8E+06
CS137	1.4E+09		
BA137M	1.3E+09		
CE144	3.3E+07		9.8E+06**
PR144	3.3E+07		
PR144M	4.0E+05		
PM147	2.2E+08		
EU152	1.1E+05		
EU154	9.2E+07		
EU155	9.0E+06		

* SONSTIGE BETA/GAMMA-STRAHLER

** SONSTIGE ALPHA-STRAHLER

ORTSDOSISLEISTUNG IN 1.0 M ABSTAND VOM GEBINDE : 6.5E-05 SV/H
 WAERMELEISTUNG PRO GEBINDE : 7.3E-04 W

BLATT-NUMMER : 2
 FOLGEBLATT-NUMMER : 1
 FAKT. F. OBEREN WERT : 1.00
 FAKT. F. MITTLEREN WERT: 1.00
 FAKT. F. NUKLIDSPEZ.AKT: 1.00
 BEHAELTNIS : FASS 400 L
 RECHENANNAHME F. MATRIX: 1.8 G/CM**3 BETON

STAND: 5/85

KODIERUNG: W 4 2 09 0 WAA 0

HERKUNFT (W) WIEDERAUFARBEITUNG (WA 350)
BEHAELTER (4) VBA
FIXIERUNG (2) ZEMENT/BETON
ABFALLART (09) RUECKSTAENDE AUS DER VERBRENNUNG

ABFALLVOLUMEN IM GEBINDE : 400 L

ALTER DES ABFALL(REFERENZALTER): 7 A

AKTIVITAET DER ALPHA-STRAHLER PRO GEBINDE
MITTLERER WERT : 4.7E+10 BQ
OBERER WERT : 4.7E+10 BQ

AKTIVITAET DER BETA/GAMMA-STRAHLER PRO GEBINDE
MITTLERER WERT : 1.1E+12 BQ
OBERER WERT : 1.1E+12 BQ

RADIONUKLIDSPEZ. AKTIVITAET PRO GEBINDE IN BQ

SR 90	4.2E+10	PU241	8.1E+11 → 0,213g
Y 90	4.2E+10		5.4E+09*
ZR 93	1.3E+06		
NB 93M	4.3E+05		
TC 99	9.8E+06	U 233	1.8E+02
RU106	3.6E+09	U 234	4.2E+05
RH106	3.6E+09	U 235	7.8E+04
AG110M	3.3E+06	U 236	1.5E+06
SN126	4.2E+05	U 238	1.5E+06
SB125	1.2E+09	PU238	3.4E+10
TE125M	4.8E+08	PU239	2.3E+09
I 129	8.3E+01	PU240	4.1E+09
CS134	1.9E+10	AM241	7.8E+08 → 6·10 ⁻³ g
CS135	1.9E+05	CM244	3.7E+09
CS137	6.4E+10		
BA137M	6.1E+10		
CE144	1.6E+09		2.1E+09**
PR144	1.6E+09		
PR144M	1.9E+07		
PM147	1.0E+10		
EU152	5.3E+06		
EU154	4.3E+09		
EU155	4.2E+08		

* SONSTIGE BETA/GAMMA-STRAHLER
** SONSTIGE ALPHA-STRAHLER

ORTSDOSISLEISTUNG IN 1.0 M ABSTAND VOM GEBINDE : 2.4E-05 SV/H
WAERMELEISTUNG PRO GEBINDE : 7.1E-02 W

BLATT-NUMMER : 3
FOLGEBLATT-NUMMER : 1
FAKT. F. OBEREN WERT : 1.00
FAKT. F. MITTLEREN WERT: 1.00
FAKT. F. NUKLIDSPEZ.AKT: 1.00
BEHAELTNIS : DWK - VBA - 400 NB
RECHENANNAHME F. MATRIX: 1.8 G/CM**3 BETON

STAND: 5/85

KODIERUNG: W 4 2 10 0 WAA 0

HERKUNFT (W) WIEDERAUFARBEITUNG (WA 350)
BEHAELTER (4) VBA
FIXIERUNG (2) ZEMENT/BETON
ABFALLART (10) SCHROTT

ABFALLVOLUMEN IM GEBINDE : 400 L

ALTER DES ABFALL(REFERENZALTER): 7 A

AKTIVITAET DER ALPHA-STRAHLER PRO GEBINDE
MITTLERER WERT : 1.5E+10 BQ
OBERER WERT : 1.5E+10 BQ

AKTIVITAET DER BETA/GAMMA-STRAHLER PRO GEBINDE
MITTLERER WERT : 5.4E+11 BQ
OBERER WERT : 5.4E+11 BQ

RADIONUKLIDSPEZ. AKTIVITAET PRO GEBINDE IN BQ

SR 90	4.2E+10	PU241	2.8E+11
Y 90	4.2E+10		4.0E+08*
ZR 93	1.3E+06		
NB 93M	4.3E+05		
TC 99	9.8E+06	U 233	1.1E+02
RU106	3.6E+09	U 234	2.4E+05
RH106	3.6E+09	U 235	4.5E+04
AG110M	3.3E+06	U 236	8.5E+05
SN126	4.2E+05	U 238	8.6E+05
SB125	1.2E+09	PU238	1.2E+10
TE125M	4.8E+08	PU239	7.9E+08
I 129	8.3E+01	PU240	1.4E+09
CS134	1.9E+10	AM241	3.4E+07
CS135	1.9E+05	CM244	1.6E+08
CS137	6.4E+10		
BA137M	6.1E+10		
CE144	1.6E+09		1.0E+09**
PR144	1.6E+09		
PR144M	1.9E+07		
PM147	1.0E+10		
EU152	5.3E+06		
EU154	4.3E+09		
EU155	4.2E+08		

* SONSTIGE BETA/GAMMA-STRAHLER

** SONSTIGE ALPHA-STRAHLER

ORTSDOSISLEISTUNG IN 1.0 M ABSTAND VOM GEBINDE : 2.1E-05 SV/H
WAERMELEISTUNG PRO GEBINDE : 3.8E-02 W

BLATT-NUMMER : 5
FOLGEBLATT-NUMMER : 1
FAKT. F. OBEREN WERT : 1.00
FAKT. F. MITTLEREN WERT: 1.00
FAKT. F. NUKLIDSPEZ.AKT: 1.00
BEHAELTNIS : DWK - VBA - 400 NB
RECHENANNAHME F. MATRIX: 1.8 G/CM**3 BETON

STAND: 5/85

KODIERUNG: W 5 2 10 0 WAA 0

HERKUNFT (W) WIEDERAUFARBEITUNG (WA 350)
BEHALTER (5) FASS
FIXIERUNG (2) ZEMENT/BETON
ABFALLART (10) SCHROTT

ABFALLVOLUMEN IM GEBINDE : 400 L

ALTER DES ABFALL(REFERENZALTER): 7 A

AKTIVITAET DER ALPHA-STRAHLER PRO GEBINDE
MITTLERER WERT : 4.2E+10 BQ
OBERER WERT : 4.2E+10 BQ

AKTIVITAET DER BETA/GAMMA-STRAHLER PRO GEBINDE
MITTLERER WERT : 8.1E+11 BQ
OBERER WERT : 8.1E+11 BQ

RADIONUKLIDSPEZ. AKTIVITAET PRO GEBINDE IN BQ

SR 90	5.9E+08	PU241	8.1E+11
Y 90	5.9E+08		5.8E+07*
ZR 93	1.8E+04		
NB 93M	6.0E+03		
TC 99	1.3E+05	U 233	1.5E+00
RU106	5.0E+07	U 234	3.5E+03
RH106	5.0E+07	U 235	6.5E+02
AG110M	4.6E+04	U 236	1.2E+04
SN126	5.8E+03	U 238	1.2E+04
SB125	1.6E+07	PU238	3.4E+10
TE125M	6.6E+06	PU239	2.3E+09
I 129	1.2E+00	PU240	4.1E+09
CS134	2.6E+08		
CS135	2.6E+03		
CS137	8.9E+08		1.6E+09**
BA137M	8.4E+08		
CE144	2.2E+07		
PR144	2.2E+07		
PR144M	2.6E+05		
PM147	1.4E+08		
EU152	7.4E+04		
EU154	6.0E+07		
EU155	5.8E+06		

* SONSTIGE BETA/GAMMA-STRAHLER

** SONSTIGE ALPHA-STRAHLER

ORTSDOSISLEISTUNG IN 1.0 M ABSTAND VOM GEBINDE : 4.6E-05 SV/H
WAERMELEISTUNG PRO GEBINDE : 3.9E-02 W

BLATT-NUMMER : 6
FOLGEBLATT-NUMMER : 1
FAKT. F. OBEREN WERT : 1.00
FAKT. F. MITTLEREN WERT: 1.00
FAKT. F. NUKLIDSPEZ.AKT: 1.00
BEHALTNIS : FASS 400 L
RECHENANNAHME F. MATRIX: 1.8 G/CM**3 BETON

STAND: 5/85

KODIERUNG: W 5 2 11 0 WAA 0

HERKUNFT (W) WIEDERAUFARBEITUNG (WA 350)
BEHAELTER (5) FASS
FIXIERUNG (2) ZEMENT/BETON
ABFALLART (11) SCHROTT UND PAKETIERTE FILTER

ABFALLVOLUMEN IM GEBINDE : 400 L

ALTER DES ABFALL(REFERENZALTER): 7 A

AKTIVITAET DER ALPHA-STRAHLER PRO GEBINDE

MITTLERER WERT : 2.4E+09 BQ
OBERER WERT : 2.4E+09 BQ

AKTIVITAET DER BETA/GAMMA-STRAHLER PRO GEBINDE

MITTLERER WERT : 4.8E+10 BQ
OBERER WERT : 4.8E+10 BQ

RADIONUKLIDSPEZ. AKTIVITAET PRO GEBINDE IN BQ

SR 90	1.3E+09	PU241	4.0E+10
Y 90	1.3E+09		1.8E+08*
ZR 93	3.9E+04		
NB 93M	1.4E+04		
TC 99	3.0E+05	U 233	3.3E+00
RU106	1.1E+08	U 234	7.6E+03
RH106	1.1E+08	U 235	1.4E+03
AG110M	1.0E+05	U 236	2.7E+04
SN126	1.3E+04	U 238	2.7E+04
SB125	3.6E+07	PU238	1.7E+09
TE125M	1.5E+07	PU239	1.1E+08
I 129	2.6E+00	PU240	2.0E+08
CS134	5.8E+08	AM241	4.7E+07
CS135	5.9E+03	CM244	2.2E+08
CS137	2.0E+09		
BA137M	1.9E+09		
CE144	4.9E+07		1.2E+08**
PR144	4.9E+07		
PR144M	5.9E+05		
PM147	3.2E+08		
EU152	1.7E+05		
EU154	1.4E+08		
EU155	1.3E+07		

* SONSTIGE BETA/GAMMA-STRAHLER

** SONSTIGE ALPHA-STRAHLER

ORTSDOSISLEISTUNG IN 1.0 M ABSTAND VOM GEBINDE : 1.1E-04 SV/H
WAERMELEISTUNG PRO GEBINDE : 3.1E-03 W

BLATT-NUMMER : 7
FOLGEBLATT-NUMMER : 1
FAKT. F. OBEREN WERT : 1.00
FAKT. F. MITTLEREN WERT: 1.00
FAKT. F. NUKLIDSPEZ.AKT: 1.00
BEHAELTNIS : FASS 400 L
RECHENANNAHME F. MATRIX: 1.8 G/CM**3 BETON

STAND: 5/85

KODIERUNG: W 4 2 12 0 WAA 0

HERKUNFT (W) WIEDERAUFARBEITUNG (WA 350)
BEHAELTER (4) VBA
FIXIERUNG (2) ZEMENT/BETON
ABFALLART (12) SORPTIONSMATERIAL (JODFILTER)

ABFALLVOLUMEN IM GEBINDE : 400 L

ALTER DES ABFALL(REFERENZALTER): 7 A

AKTIVITAET DER ALPHA-STRAHLER PRO GEBINDE

MITTLERER WERT : 7.4E+08 BQ
OBERER WERT : 7.4E+08 BQ

AKTIVITAET DER BETA/GAMMA-STRAHLER PRO GEBINDE

MITTLERER WERT : 1.2E+11 BQ
OBERER WERT : 1.2E+11 BQ

RADIONUKLIDSPEZ. AKTIVITAET PRO GEBINDE IN BQ

I 129 1.1E+11
PU241 1.4E+10

U 233 4.5E+00
U 234 1.0E+04
U 235 1.9E+03
U 236 3.6E+04
U 238 3.7E+04
PU238 6.0E+08
PU239 3.9E+07
PU240 7.2E+07
AM241 7.4E+04
CM244 3.5E+05

2.9E+07**

** SONSTIGE ALPHA-STRAHLER

ORTSDOSISLEISTUNG IN 1.0 M ABSTAND VOM GEBINDE : 5.0E-06 SV/H
WAERMELEISTUNG PRO GEBINDE : 2.1E-03 W

BLATT-NUMMER : 8
FOLGEBLATT-NUMMER : 1
FAKT. F. OBEREN WERT : 1.00
FAKT. F. MITTLEREN WERT: 1.00
FAKT. F. NUKLIDSPEZ.AKT: 1.00
BEHAELTNIS : DWK - VBA - 400 NB
RECHENANNAHME F. MATRIX: 1.4 G/CM**3 ZELLULOSE

STAND: 5/85

KODIERUNG: W 5 2 14 0 WAA 0

HERKUNFT (W) WIEDERAUFARBEITUNG (WA 350)
BEHAELTER (5) FASS
FIXIERUNG (2) ZEMENT/BETON
ABFALLART (14) BAUSCHUTT, STRAHL SAND

ABFALLVOLUMEN IM GEBINDE : 400 L

ALTER DES ABFALL(REFERENZALTER): 7 A

AKTIVITAET DER ALPHA-STRAHLER PRO GEBINDE

MITTLERER WERT : 8.0E+07 BQ
OBERER WERT : 8.0E+07 BQ

AKTIVITAET DER BETA/GAMMA-STRAHLER PRO GEBINDE

MITTLERER WERT : 1.5E+11 BQ
OBERER WERT : 1.5E+11 BQ

RADIONUKLIDSPEZ. AKTIVITAET PRO GEBINDE IN BQ

SR 90	6.4E+08	PU241	1.5E+11
Y 90	6.4E+08		
ZR 93	1.8E+04		
NB 93M	6.2E+03	U 233	6.0E-01
TC 99	1.4E+05	U 234	1.4E+03
RU106	5.4E+07	U 235	2.6E+02
RH106	5.4E+07	U 236	4.8E+03
AG110M	4.7E+04	U 238	4.9E+03
SN126	5.9E+03	PU238	6.4E+07
SB125	1.6E+07	PU239	4.3E+06
TE125M	6.8E+06	PU240	7.8E+06
I 129	1.2E+00		
CS134	2.8E+08		
CS135	2.7E+03		3.9E+06**
CS137	9.6E+08		
BA137M	9.1E+08		
CE144	2.2E+07		
PR144	2.2E+07		
PR144M	2.6E+05		
PM147	1.3E+08		
EU152	7.6E+04		
EU154	6.2E+07		
EU155	6.0E+06		

** SONSTIGE ALPHA-STRAHLER

ORTSDOSISLEISTUNG IN 1.0 M ABSTAND VOM GEBINDE : 4.5E-05 SV/H
WAERMELEISTUNG PRO GEBINDE : 5.5E-04 W

BLATT-NUMMER : 10
FOLGEBLATT-NUMMER : 1
FAKT. F. OBEREN WERT : 1.00
FAKT. F. MITTLEREN WERT: 1.00
FAKT. F. NUKLIDSPEZ.AKT: 1.00
BEHAELTNIS : FASS 400 L
RECHENANNAHME F. MATRIX: 1.8 G/CM**3 BETON

STAND: 5/85

KODIERUNG: W 5 2 15 0 WAA 0

HERKUNFT (W) WIEDERAUFARBEITUNG (WA 350)
BEHAELTER (5) FASS
FIXIERUNG (2) ZEMENT/BETON
ABFALLART (15) FESTE, Z. T. BRENNBARE PU-HALTIGE ABFAELLE AUS
DER MOX-HERSTELLUNG

ABFALLVOLUMEN IM GEBINDE : 400 L

ALTER DES ABFALL(REFERENZALTER): 7 A

AKTIVITAET DER ALPHA-STRAHLER PRO GEBINDE

MITTLERER WERT : 7.4E+11 BQ
OBERER WERT : 7.4E+11 BQ

AKTIVITAET DER BETA/GAMMA-STRAHLER PRO GEBINDE

MITTLERER WERT : 1.3E+13 BQ
OBERER WERT : 1.3E+13 BQ

RADIONUKLIDSPEZ. AKTIVITAET PRO GEBINDE IN BQ (A)

PU241 1.3E+13 - 3,48

U 233 1.5E+03

U 234 3.5E+06

U 235 6.5E+05

U 236 1.2E+07

U 238 1.2E+07

PU238 6.1E+11

PU239 4.5E+10

PU240 7.5E+10

AM241 1.3E+10 - 1,02 · 10⁻¹

ORTSDOSISLEISTUNG IN 1.0 M ABSTAND VOM GEBINDE : 5.0E-06 SV/H
WAERMELEISTUNG PRO GEBINDE : 6.7E-01 W

BLATT-NUMMER : 11
FOLGEBLATT-NUMMER : 1
FAKT. F. OBEREN WERT : 1.00
FAKT. F. MITTLEREN WERT: 1.00
FAKT. F. NUKLIDSPEZ. AKT: 1.00
BEHAELTNIS : FASS 400 L
RECHENANNAHME F. MATRIX: 1.4 G/CM**3 ZELLULOSE

STAND: 5/85

KODIERUNG: W 4 2 06 0 WAA 0

HERKUNFT (W) WIEDERAUFARBEITUNG (WA 350)
BEHAELTER (4) VBA
FIXIERUNG (2) ZEMENT/BETON
ABFALLART (06) SCHWEBSTOFFFILTER

ABFALLVOLUMEN IM GEBINDE : 400 L

ALTER DES ABFALL(REFERENZALTER): 7 A

AKTIVITAET DER ALPHA-STRAHLER PRO GEBINDE
MITTLERER WERT : 9.4E+11 BQ
OBERER WERT : 9.4E+11 BQ

AKTIVITAET DER BETA/GAMMA-STRAHLER PRO GEBINDE
MITTLERER WERT : 6.0E+12 BQ
OBERER WERT : 6.0E+12 BQ

RADIONUKLIDSPEZ. AKTIVITAET PRO GEBINDE IN BQ

SR 90	5.2E+11	PU241	2.8E+12
Y 90	5.2E+11		5.3E+10*
ZR 93	1.6E+07		
NB 93M	5.4E+06		
TC 99	1.2E+08	U 233	8.4E+02
RU106	4.4E+10	U 234	1.9E+06
RH106	4.4E+10	U 235	3.6E+05
AG110M	4.0E+07	U 236	6.8E+06
SN126	5.1E+06	U 238	6.9E+06
SB125	1.4E+10	PU238	1.2E+11
TE125M	5.9E+09	PU239	8.0E+09
I 129	1.0E+03	PU240	1.5E+10
CS134	2.3E+11	AM241	1.3E+11
CS135	2.4E+06	CM244	6.1E+11
CS137	7.9E+11		
BA137M	7.5E+11		
CE144	1.9E+10		5.7E+10**
PR144	1.9E+10		
PR144M	2.3E+08		
PM147	1.3E+11		
EU152	6.6E+07		
EU154	5.4E+10		
EU155	5.2E+09		

* SONSTIGE BETA/GAMMA-STRAHLER

** SONSTIGE ALPHA-STRAHLER

ORTSDOSISLEISTUNG IN 1.0 M ABSTAND VOM GEBINDE : 2.8E-05 SV/H
WAERMELEISTUNG PRO GEBINDE : 1.2E+00 W

BLATT-NUMMER : 17
FOLGEBLATT-NUMMER : 1
FAKT. F. OBEREN WERT : 1.00
FAKT. F. MITTLEREN WERT: 1.00
FAKT. F. NUKLIDSPEZ.AKT: 1.00
BEHAELTNIS : DWK - VBA - 400 SB
RECHENANNAHME F. MATRIX: 1.8 G/CM**3 BETON

STAND: 5/85

KODIERUNG: W 4 2 07 0 WAA 0

HERKUNFT (W) WIEDERAUFARBEITUNG (WA 350)
 BEHAELTER (4) VBA
 FIXIERUNG (2) ZEMENT/BETON
 ABFALLART (07) FASERMATTENFILTER, KERZENFILTER, SONSTIGE FILTER

ABFALLVOLUMEN IM GEBINDE : 400 L

ALTER DES ABFALL(REFERENZALTER): 7 A

AKTIVITAET DER ALPHA-STRAHLER PRO GEBINDE

MITTLERER WERT : 4.9E+11 BQ
 OBERER WERT : 4.9E+11 BQ

AKTIVITAET DER BETA/GAMMA-STRAHLER PRO GEBINDE

MITTLERER WERT : 3.3E+12 BQ
 OBERER WERT : 3.3E+12 BQ

RADIONUKLIDSPEZ. AKTIVITAET PRO GEBINDE IN BQ

SR 90	2.8E+11	PU241	1.6E+12
Y 90	2.8E+11		7.1E+10*
ZR 93	8.2E+06		
NB 93M	2.9E+06		
TC 99	6.4E+07	U 233	4.5E+02
RU106	2.4E+10	U 234	1.0E+06
RH106	2.4E+10	U 235	1.9E+05
AG110M	2.2E+07	U 236	3.6E+06
SN126	2.7E+06	U 238	3.7E+06
SB125	7.6E+09	PU238	6.8E+10
TE125M	3.1E+09	PU239	4.5E+09
I 129	5.4E+02	PU240	8.2E+09
CS134	1.2E+11	AM241	6.7E+10
CS135	1.2E+06	CM244	3.2E+11
CS137	4.2E+11		
BA137M	4.0E+11		
CE144	1.0E+10		2.2E+10**
PR144	1.0E+10		
PR144M	1.2E+08		
PM147	6.8E+10		
EU152	3.5E+07		
EU154	2.8E+10		
EU155	2.8E+09		

* SONSTIGE BETA/GAMMA-STRAHLER

** SONSTIGE ALPHA-STRAHLER

ORTSDOSISLEISTUNG IN 1.0 M ABSTAND VOM GEBINDE : 1.8E-05 SV/H
 WAERMELEISTUNG PRO GEBINDE : 6.7E-01 W

BLATT-NUMMER : 18
 FOLGEBLATT-NUMMER : 1
 FAKT. F. OBEREN WERT : 1.00
 FAKT. F. MITTLEREN WERT: 1.00
 FAKT. F. NUKLIDSPEZ.AKT: 1.00
 BEHAELTNIS : DWK - VBA - 400 SB
 RECHENANNAHME F. MATRIX: 1.8 G/CM**3 BETON

4.2 Zuordnung von Abfällen zu Mobilisierungsgruppen

In die Modellansätze zur Berechnung der Freisetzung von Radionukliden aus dem Grubengebäude ins Deckgebirge geht die Mobilisierung, d. h. die Freisetzung von Radionukliden aus einem Abfallgebinde ein. Dabei wird die Mobilisierung durch das Ausfallverhalten der Verpackung und die Auflösung des Abfallproduktes bestimmt.

Bei den Verpackungen wird zwischen Gußbehältern und Stahlblech-/Betonbehältern unterschieden, unabhängig davon, ob es sich um Container oder zylindrische Behälter handelt. In /4/ sind Untersuchungen zur Auflösung des Abfallproduktes beschrieben, wobei die unterschiedlichen Abfallarten und Fixierungen hinsichtlich des Freisetzungsverhaltens von Radionukliden durch Auslaugung in Gruppen eingeteilt sind.

Auf der anderen Seite haben die Sicherheitsanalysen für die Betriebsphase des Endlagers Konrad zu einer Zusammenfassung der Vielzahl unterschiedlicher Abfallprodukte zu sechs Abfallproduktgruppen geführt /5/.

Der erste Schritt besteht daher aus einer Zuordnung der in /4/ definierten Mobilisierungsgruppen zu den Abfallproduktgruppen, um bzgl. der Abfallprodukte für die Analysen der Betriebsphase und der Nachbetriebsphase die gleiche Basis zu haben.

In einem zweiten Schritt sind dann aufgrund der Ergebnisse des Freisetzungsverhaltens der Radionuklide Mobilisierungsgruppen definiert worden, die in Tab. 12 zusammengestellt sind.

Mobilisierungsgruppe	Abfallproduktgruppe
Metall	Metallische Feststoffe
Zement	Zementierte/betonierte Abfälle
Bitumen	Bitumen- und Kunststoffprodukte
Sonstige	Feststoffe Preßlinge Konzentrate

Tab.12: Zuordnung der Abfallproduktgruppen zu Mobilisierungsgruppen

In einem weiteren Schritt müssen die diesem Bericht zugrundeliegenden Abfälle den Mobilisierungsgruppen zugeordnet werden. Dies erfolgt auf der Basis der z. Z. vorhandenen Abfallarten und vorgesehenen Fixierungen.

Bei der Zuordnung der Abfälle zu den Mobilisierungsgruppen ist grundsätzlich von der Beschreibung der Abfallart auf den Datenblättern ausgegangen worden. Die Erfüllung der Anforderungen aus den Definitionen der Abfallproduktgruppen in /5/ wird dabei vorausgesetzt. Da das Abfallprodukt meistens in sehr allgemeiner Form beschrieben ist, ist eine unterschiedliche Zuordnung zu den Mobilisierungsgruppen möglich. Diese Schwierigkeit soll anhand zweier Beispiele erläutert werden.

Die Abfallart Schrott und Filter in Zement/Beton fixiert kann der Mobilisierungsgruppe "Zement" zugeordnet werden, wenn der Abfall geshreddert ist und damit die Aktivität - soweit technisch und aufgrund der Beschaffenheit des Abfalls sinnvoll machbar - gleichmäßig im Produkt verteilt ist. Wenn Filter und Schrott dagegen nur mit Zement/Beton übergossen sind, um Beschä-

digungen des Abfallbehälters zu vermeiden, ist das Abfallprodukt der Mobilisierungsgruppe "Sonstige" zuzuordnen.

Rückstände aus Verbrennung und Pyrolyse (z. B. Aschen) können nicht der Mobilisierungsgruppe "Zement" zugeordnet werden, wenn der Abfall in einem Polyäthylenbeutel oder einer Kapsel mit Zementleim umgossen vorliegt, weil in diesem Fall die Forderung aus der Definition der Abfallproduktgruppe nicht eingehalten wird, daß der radioaktive Abfall so in Zementstein oder Beton fixiert ist, daß keine freien Anteile des Abfalls mehr vorhanden sind. Auch dieser Abfall gehört in die Mobilisierungsgruppe "Sonstige".

Die Zuordnung der Abfälle zu den Mobilisierungsgruppen ist in Tab. 13 zusammengestellt.

STAHLBLECH- UND BETONBEHÄLTER

F52020KFKO	F	1/1	ZEMENT
F62020KFKO	F	2/1	ZEMENT
F4204AKFKO	F	3/1	ZEMENT
F6204AKFKO	F	4/1	ZEMENT
F6304AKFKO	F	5/1	BITUMEN
F4204BKFKO	F	6/1	ZEMENT
F6204BKFKO	F	7/1	ZEMENT
F6304BKFKO	F	8/1	BITUMEN
F52040KFKO	F	9/1	ZEMENT
F4208AKFKO	F	12/1	SONSTIGE
F6208AKFKO	F	13/1	SONSTIGE
F4208BKFKO	F	14/1	SONSTIGE
F6208BKFKO	F	15/1	SONSTIGE
F4208CKFKO	F	16/1	SONSTIGE
F6208CKFKO	F	17/1	SONSTIGE
F5208AKFKO	F	18/1	SONSTIGE
F5208BKFKO	F	19/1	SONSTIGE
F54080KFKO	F	20/1	SONSTIGE
F64080KFKO	F	21/1	SONSTIGE
F52030KFAO	F	22/1	ZEMENT
F42040KFAO	F	23/1	ZEMENT
F42070KFAO	F	24/1	ZEMENT
F54070KFAO	F	25/1	SONSTIGE
I52010RBUO	I	1/1	ZEMENT
I52010RBUO	I	1/2	ZEMENT
I54020RBUO	I	2/1	SONSTIGE
I52010NUKO	I	3/1	ZEMENT
I52030NUKO	I	4/1	ZEMENT
I54040NUKO	I	5/1	SONSTIGE
I54020EXXO	I	6/1	SONSTIGE
I52070EXXO	I	7/1	ZEMENT
I52070EXXO	I	7/2	ZEMENT
I54020URAO	I	8/1	SONSTIGE
I42070URAO	I	9/1	ZEMENT
I42050ALKO	I	10/1	ZEMENT
I52050ALKO	I	11/1	ZEMENT
I54060ALKO	I	12/1	SONSTIGE
I42080KWUO	I	13/1	ZEMENT
I52090KWUO	I	15/1	SONSTIGE
I52090KWUO	I	15/2	SONSTIGE
I54100KWUO	I	16/1	SONSTIGE
I54100KWUO	I	16/2	SONSTIGE
K42020SWRO	K	5/1	ZEMENT
K42020SWRO	K	5/2	ZEMENT
K42030DWRO	K	7/1	ZEMENT
K42040DWRO	K	10/1	ZEMENT
K42040DWRO	K	10/2	ZEMENT
K52040DWRO	K	11/1	ZEMENT
K52040DWRO	K	11/2	ZEMENT
K42050SWRO	K	14/1	ZEMENT

Tab. 13: Zuordnung der Abfälle zu Mobilisierungsgruppen

STAHLBLECH- UND BETONBEHAELTER

K42050SWRO	K 14/2	ZEMENT
K52050SWRO	K 15/1	ZEMENT
K52050SWRO	K 15/2	ZEMENT
K42110DSRO	K 21/1	SONSTIGE
K42110DSRO	K 21/2	SONSTIGE
K52110DSRO	K 22/1	SONSTIGE
K52110DSRO	K 22/2	SONSTIGE
K42120DSRO	K 23/1	ZEMENT
K42120DSRO	K 23/2	ZEMENT
K52120DSRO	K 24/1	ZEMENT
K52120DSRO	K 24/2	ZEMENT
K54130DSRO	K 25/1	SONSTIGE
K54130DSRO	K 25/2	SONSTIGE
K62130DSRO	K 26/1	SONSTIGE
K42060SNRO	K 28/1	ZEMENT
K54130SNRO	K 30/1	SONSTIGE
K54130SNRO	K 30/2	SONSTIGE
K52030AVRO	K 31/1	ZEMENT
K52070AVRO	K 32/1	ZEMENT
K52120AVRO	K 33/1	ZEMENT
K54130AVRO	K 34/1	SONSTIGE
K52140AVRO	K 35/1	SONSTIGE
K52150AVRO	K 36/1	ZEMENT
K52110HTRO	K 37/1	SONSTIGE
K52120HTRO	K 38/1	ZEMENT
K54130HTRO	K 39/1	SONSTIGE
K52160HTRO	K 40/1	ZEMENT
K42120AVRO	K 45/1	ZEMENT
K42130AVRO	K 48/1	SONSTIGE
L52010NRWO	L 1/1	ZEMENT
L54020NRWO	L 2/1	SONSTIGE
S42020FR20	S 2/1	ZEMENT
S42020FR20	S 2/2	ZEMENT
S52020FR20	S 3/1	ZEMENT
S52020FR20	S 3/2	ZEMENT
S42030FR20	S 5/1	ZEMENT
S42030FR20	S 5/2	ZEMENT
S52030FR20	S 6/1	ZEMENT
S52030FR20	S 6/2	ZEMENT
S52020HDRO	S 7/1	ZEMENT
S64020OHA0	S 12/1	METALL
S64020OHA0	S 12/2	METALL
S54030OHA0	S 13/1	SONSTIGE
S54030OHA0	S 13/2	SONSTIGE
S42040OHA0	S 14/1	ZEMENT
S52040OHA0	S 15/1	ZEMENT
S6402AVAK0	S 76/1	METALL
S6402BVAK0	S 77/1	METALL
S6402CVAK0	S 78/1	METALL
S6403AVAK0	S 79/1	SONSTIGE

Tab. 13: Fortsetzung

STAHLBLECH- UND BETONBEHAELTER

S6403BVAKO	S 80/1	SONSTIGE
S6403CVAKO	S 81/1	SONSTIGE
S6204AVAKO	S 82/1	ZEMENT
S6204BVAKO	S 83/1	ZEMENT
S6204CVAKO	S 84/1	ZEMENT
S6204DVAKO	S 85/1	ZEMENT
S42020KKNO	S223/1	ZEMENT
S64030KKNO	S224/1	SONSTIGE
U520100BWO	U 1/1	SONSTIGE
U520200BWO	U 2/1	ZEMENT
U540300BWO	U 3/1	SONSTIGE
U42020HOEO	U 4/1	ZEMENT
U42020HOEO	U 4/2	ZEMENT
U52040HOEO	U 5/1	ZEMENT
U54050HOEO	U 6/1	SONSTIGE
U54060HOEO	U 7/1	SONSTIGE
W42080WAAO	W 1/1	ZEMENT
W52080WAAO	W 2/1	ZEMENT
W42090WAAO	W 3/1	ZEMENT
W52090WAAO	W 4/1	ZEMENT
W42100WAAO	W 5/1	ZEMENT
W52100WAAO	W 6/1	ZEMENT
W52110WAAO	W 7/1	ZEMENT
W42120WAAO	W 8/1	ZEMENT
W42130WAAO	W 9/1	ZEMENT
W52140WAAO	W 10/1	ZEMENT
W52150WAAO	W 11/1	ZEMENT
W43080CBNO	W 12/1	BITUMEN
W42110CBNO	W 13/1	ZEMENT
W42150CBNO	W 14/1	ZEMENT
W4205AWAAO	W 15/1	ZEMENT
W4205BWAAO	W 16/1	ZEMENT
W42060WAAO	W 17/1	ZEMENT
W42070WAAO	W 18/1	ZEMENT

Tab. 13: Fortsetzung

GUSSBEHAELTER

F24060KFKO	F 10/1	METALL
F24080KFKO	F 11/1	SONSTIGE
I22090KWUO	I 14/1	SONSTIGE
K24010DWRO	K 1/1	BITUMEN
K24010DWRO	K 1/2	BITUMEN
K23010DWRO	K 2/1	BITUMEN
K24020SWRO	K 3/1	BITUMEN
K24030DWRO	K 6/1	SONSTIGE
K24040DWRO	K 8/1	SONSTIGE
K24050SWRO	K 12/1	SONSTIGE
K24080SWRO	K 16/1	METALL
K24090SWRO	K 17/1	METALL
K24100SWRO	K 18/1	METALL
K24110DSRO	K 19/1	SONSTIGE
K24110DSRO	K 19/2	SONSTIGE
K24060SNRO	K 27/1	SONSTIGE
K24110SNRO	K 29/1	SONSTIGE
K24120AVRO	K 46/1	SONSTIGE
K24130AVRO	K 47/1	SONSTIGE
K24180HTRO	K 51/1	SONSTIGE
K24170HTRO	K 52/1	SONSTIGE
S24010FR20	S 1/1	METALL
S24030FR20	S 4/1	SONSTIGE
S24030FR20	S 4/2	SONSTIGE
S24010OHAO	S 11/1	METALL
S2401AVAKO	S 71/1	METALL
S2401BVAKO	S 72/1	METALL
S2401BVAKO	S 72/2	METALL
S2401CVAKO	S 73/1	METALL
S2401DVAKO	S 74/1	METALL
S2401EVAKO	S 75/1	METALL

Tab. 13: Fortsetzung

4.3 Zugrundeliegende Abfalldatenbasis für die Rechnungen auf der Basis der Mobilisierungsgruppen

In Kap. 4.1 ist die zugrundeliegende Abfalldatenbasis für die behälterspezifischen Rechnungen dargestellt worden. Die dort beschriebenen Annahmen und Ergänzungen sind auch in die Rechnungen eingegangen, die auf den Mobilisierungsgruppen beruhen. Ausnahmen bilden die Interpretation der sonstigen α - und β / γ -Strahler auf den Datenblättern in /1/ und die Aufteilung eines gemeinsamen Aktivitätswertes für mehrere Radionuklide auf diese Radionuklide.

Da die kumulierten Aktivitäten, aufgeschlüsselt nach den vier Mobilisierungsgruppen, als Eingangsdaten für die Sicherheitsanalysen zur Nachbetriebsphase dienen, müssen die nicht spezifizierten Aktivitäten so interpretiert werden, daß für die mit den Abfalldaten erzeugten Ergebnisse ein für Planungszwecke bzw. den Betrieb der Anlage hinreichend sicheres Gesamtergebnis zu erwarten ist. Das würde für die Analysen zur Langzeitsicherheit bedeuten, daß auf der Basis der Ergebnisse in /6/ für nicht spezifizierte α -Strahler durchgängig das Radionuklid Np 237 und für nicht spezifizierte β / γ -Strahler durchgängig das Radionuklid Tc 99 angenommen werden müßte.

Da die sonstigen α - und β / γ -Strahler ca. 10 % des Gesamtinventars ausmachen, wobei die β / γ -Strahler um Größenordnungen über den α -Strahler liegen, führt die oben genannte Wahl von Np 237 und Tc 99 zu einer Überschätzung dieser Radionuklide im Abfallspektrum.

Darüberhinaus wird in den ersten 100 000 Jahren das Abklingverhalten der Gesamtaktivität durch das zusätzlich unterstellte Tc 99 bestimmt und damit verzerrt. Die sonstigen α - und β / γ -Strahler werden daher bei den kumulierten Aktivitäten nicht berücksichtigt, sie werden durch den Sicherheitszuschlag (s. Kap. 4.5) als abgedeckt angesehen.

Bei einigen Abfallgebinden (S- und I-Abfälle, insgesamt 12 Datenblätter) ist von den Abfallverursachern für mehrere aufgeführte Radionuklide nur ein gemeinsamer Aktivitätswert angegeben worden.

Diese Datenblätter müssen deshalb bei der weiteren Verwendung gesondert behandelt werden. Dazu wird folgende ergänzende Annahme getroffen: Ist für eine Anzahl von n Radionukliden nur eine Summenaktivität auf den Datenblättern aufgeführt, so wird für jedes einzelne der n Radionuklide der n -te Teil der Summenaktivität angesetzt.

4.4 Ergänzung von für die Nachbetriebsphase relevanten Radionukliden

Außer der in Kap. 4.1 aufgeführten Erweiterung der Abfalldatenblätter in /1/ sind unter Langzeitaspekten weitere Ergänzungen notwendig. Dazu zählen die Radionuklide Ni 59 und Cs 135, die in aktivierten Abfällen auftreten sowie eine Reihe von Radionukliden, die nach Aussagen der GSF aufgrund des Fließschemas in den Wiederaufarbeitungsabfällen vorhanden, aber von den Abfallverursachern nicht angegeben worden sind.

In einer Reihe von Datenblättern sind nur Angaben für Ni 63 und Cs 137 enthalten, obwohl es sich um aktivierte Abfälle handelt, so daß die Radionuklide Ni 59 und Cs 135 aufgrund der Aktivierung ebenfalls in diesen Abfällen vorkommen.

Für die Kernkraftwerks- und Stilllegungsabfälle ist dabei nach /7/ vorgegangen und konservativ das Verhältnis Ni 59/Ni 63 = 10^{-2} und Cs 135/Cs 137 = $6 \cdot 10^{-6}$ angenommen worden.

Für die Abfälle aus der Industrie sind die o. a. Werte aufgrund fehlender Angaben übernommen worden, wobei diese Abfälle nur eine untergeordnete Rolle spielen.

Bei den Wiederaufarbeitungsabfällen wird in Anlehnung an PSE das Verhältnis Ni 59/Ni 63 = $8,5 \cdot 10^{-3}$ angesetzt und für Cs 135/Cs 137 mit $3 \cdot 10^{-6}$ das bei den anderen W-Abfällen angegebene Verhältnis unterstellt.

Für die Forschungsabfälle ist bei Ni 59/Ni 63 mit $2 \cdot 10^{-2}$ das in anderen F-Abfällen angegebene Verhältnis angenommen worden, das Verhältnis bei Cs 135/Cs 137 ist mit $6 \cdot 10^{-6}$ konservativ abgeschätzt worden, da die Werte je nach Abbrand schwanken (z. B. beträgt das Verhältnis bei einem Abbrand von 36 000 MW $2,4 \cdot 10^{-6}$ (s. /8/)).

Die Aktivitätswerte von Ni 59 und Cs 135, die bei der Kumulierung zusätzlich zu berücksichtigen sind, werden folgendermaßen ermittelt:

1. In den betreffenden Abfällen werden die Aktivitäten entsprechend den oben aufgeführten Verhältnissen errechnet.
2. Die so ermittelten Aktivitäten werden mit der Anzahl der nach dem mittleren Mengenaufkommen im 22. Betriebsjahr anfallenden Abfallbinden multipliziert und damit eine Gesamtktivität für die Radionuklide Ni 59 und Cs 137 ermittelt.

Die ergänzten Radionuklide mit ihren Aktivitäten sind in Tab. 14 zusammengestellt, aufgeschlüsselt nach den verschiedenen Datenblättern.

Anschließend sind die so errechneten Werte im Hinblick auf die Mobilisierungsgruppen und die für die Nachbetriebsphase getroffene Unterscheidung zwischen Gußbehältern und den übrigen Behältern zusammengefaßt worden.

Damit ergibt sich für die Kumulierung, daß getrennt nach Gußbehältern und Stahl- bzw. Betonbehältern sowie den vier Mobilisierungsgruppen die in Tab. 15 aufgeführten Aktivitäten zu den aus den Datenblättern erhaltenen Aktivitäten im 22. Betriebsjahr addiert werden müssen.

Datenblatt	Radionuklid	Aktivität in Bq	Gesamtaktivität in Bq
F 24080 KFKO	Ni 59	$1,3 \times 10^{10}$	$1,1 \times 10^{12}$
	Cs 135	$2,2 \times 10^7$	$1,9 \times 10^9$
F 24040 KFAO	Cs 135	$1,4 \times 10^4$	$3,1 \times 10^6$
F 4204A KFKO	Cs 135	$2,5 \times 10^5$	$3,2 \times 10^8$
F 4204B KFKO	Cs 135	$5,3 \times 10^5$	$1,8 \times 10^{10}$
F 42070 KFAO	Cs 135	$1,4 \times 10^4$	$6,2 \times 10^6$
F 4208A KFKO	Cs 135	$7,8 \times 10^5$	$8,6 \times 10^8$
F 4208B KFKO	Cs 135	$7,8 \times 10^6$	$7,4 \times 10^9$
F 52020 KFKO	Cs 135	$4,4 \times 10^2$	$9,7 \times 10^5$
F 52030 KFAO	Cs 135	$3,1 \times 10^2$	$2,2 \times 10^6$
F 52040 KFKO	Cs 135	$5,0 \times 10^3$	$2,2 \times 10^5$
F 5208A KFKO	Cs 135	$3,8 \times 10^3$	$1,9 \times 10^8$
F 54070 KFAO	Cs 135	$2,6 \times 10^2$	$2,3 \times 10^6$
F 54080 KFKO	Cs 135	$1,4 \times 10^2$	$6,2 \times 10^5$
F 62020 KFKO	Cs 135	$1,9 \times 10^4$	$3,3 \times 10^6$
F 6204A KFKO	Cs 135	$4,6 \times 10^5$	$3,1 \times 10^8$
F 6204B KFKO	Cs 135	$2,8 \times 10^6$	$6,2 \times 10^9$
F 6208A KFKO	Cs 135	$5,9 \times 10^5$	$9,1 \times 10^7$
F 6208B KFKO	Cs 135	$5,5 \times 10^6$	$7,3 \times 10^8$
F 6304A KFKO	Cs 135	$3,6 \times 10^5$	$3,2 \times 10^8$
F 6304B KFKO	Cs 135	$2,2 \times 10^6$	$6,1 \times 10^9$
F 64080 KFKO	Cs 135	$3,9 \times 10^3$	$6,9 \times 10^5$
I 42080 KWUO	Cs 135	$1,1 \times 10^6$	$2,2 \times 10^7$
I 22090 KWUO	Cs 135	$1,4 \times 10^5$	$6,2 \times 10^6$
I 52090 KWUO (200 l)	Cs 135	$6,6 \times 10^2$	$8,7 \times 10^5$
I 52090 KWUO (400 l)	Cs 135	$6,6 \times 10^2$	$8,7 \times 10^5$
I 54100 KWUO (200 l)	Cs 135	$1,0 \times 10^2$	$4,5 \times 10^4$
I 54100 KWUO (400 l)	Cs 135	$1,0 \times 10^2$	$4,5 \times 10^4$
K 52120 DSRO (200 l)	Cs 135	$3,1 \times 10^3$	$2,5 \times 10^6$
K 52120 DSRO (400 l)	Cs 135	$3,1 \times 10^3$	$2,5 \times 10^6$
K 52120 AVRO	Cs 135	$4,3 \times 10^1$	$1,3 \times 10^2$

Tab. 14: Ergänzung der Radionuklide Ni 59 und Cs 135 in F-, I-, K-, S- und W-Abfällen

Datenblatt	Radionuklid	Aktivität in Bq	Gesamtaktivität in Bq
K 52120 HTRO	Cs 135	$1,8 \times 10^1$	$1,9 \times 10^3$
K 52140 AVRO	Ni 59	$3,7 \times 10^1$	$4,4 \times 10^3$
	Cs 135	$1,9 \times 10^1$	$2,3 \times 10^3$
K 52150 AVRO	Cs 135	$1,6 \times 10^2$	$1,6 \times 10^3$
K 52160 HTRO	Cs 135	$4,0 \times 10^2$	$2,9 \times 10^6$
K 52070 AVRO	Cs 135	$1,6 \times 10^2$	$6,4 \times 10^3$
K 24100 SWRO	Ni 59	$3,7 \times 10^{10}$	$8,1 \times 10^{13}$
K 24110 DSRO (Typ I)	Ni 59	$5,6 \times 10^{10}$	$4,0 \times 10^{13}$
K 52110 HTRO	Ni 59	$3,7 \times 10^1$	$6,1 \times 10^4$
	Cs 135	$1,9 \times 10^{-1}$	$3,1 \times 10^2$
K 54130 AVRO	Cs 135	$6,6 \times 10^1$	$1,3 \times 10^4$
K 54130 HTRO	Cs 135	$1,1 \times 10^1$	$2,1 \times 10^3$
K 24110 DSRO (Typ II)	Ni 59	$5,6 \times 10^{10}$	$4,0 \times 10^{13}$
K 24110 SNRO	Ni 59	$5,6 \times 10^{10}$	$1,1 \times 10^{13}$
K 24060 SNRO	Cs 135	$6,6 \times 10^4$	$2,2 \times 10^7$
K 24080 SWRO	Ni 59	$1,5 \times 10^{10}$	$1,7 \times 10^{12}$
	Cs 135	$4,4 \times 10^2$	$5,0 \times 10^4$
K 24090 SWRO	Ni 59	$3,7 \times 10^9$	$1,7 \times 10^{13}$
K 42110 DSRO (200 l)	Ni 59	$2,2 \times 10^7$	$7,9 \times 10^{10}$
K 42110 DSRO (400 l)	Ni 59	$1,9 \times 10^7$	$6,8 \times 10^{10}$
K 42120 DSRO (200 l)	Cs 135	$7,8 \times 10^4$	$3,6 \times 10^6$
K 42120 DSRO (400 l)	Cs 135	$6,0 \times 10^4$	$2,8 \times 10^6$
K 42060 SNRO	Cs 135	$2,6 \times 10^3$	$2,0 \times 10^7$
K 52110 DSRO (200 l)	Ni 59	$7,4 \times 10^5$	$4,0 \times 10^9$
K 52110 DSRO (400 l)	Ni 59	$7,4 \times 10^5$	$4,0 \times 10^9$
K 54130 SNRO (200 l)	Cs 135	$1,3 \times 10^3$	$8,5 \times 10^5$
K 54130 SNRO (400 l)	Cs 135	$1,3 \times 10^3$	$8,5 \times 10^5$
K 42120 AVRO	Cs 135	$6,6 \times 10^2$	$2,0 \times 10^4$
K 24120 AVRO	Cs 135	$6,6 \times 10^3$	$1,3 \times 10^5$
K 24130 AVRO	Cs 135	$4,3 \times 10^3$	$1,3 \times 10^5$
K 42130 AVRO	Cs 135	$1,1 \times 10^3$	$7,7 \times 10^4$

Tab.14: Fortsetzung

Datenblatt	Radionuklid	Aktivität in Bq	Gesamtaktivität in Bq
S 2401A VAKO	Cs 135	$2,4 \times 10^1$	$4,8 \times 10^2$
S 2401B VAKO (Typ I)	Cs 135	$2,3 \times 10^0$	$8,1 \times 10^1$
S 2401B VAKO (Typ II)	Cs 135	$2,3 \times 10^0$	$8,1 \times 10^1$
S 2401C VAKO	Cs 135	$2,2 \times 10^0$	$1,1 \times 10^1$
S 2401D VAKO	Cs 135	$4,5 \times 10^1$	$2,3 \times 10^2$
S 2401E VAKO	Cs 135	$2,9 \times 10^1$	$2,9 \times 10^1$
S 24010 OHAO	Ni 59	$3,6 \times 10^9$	$7,6 \times 10^{11}$
S 42020 FR20 (200 1)	Ni 59	$1,3 \times 10^2$	$9,8 \times 10^3$
S 42020 FR20 (400 1)	Ni 59	$1,3 \times 10^2$	$9,8 \times 10^3$
S 42040 OHAO	Cs 135	$6,0 \times 10^{-6}$	$3,6 \times 10^{-5}$
S 52020 HDRO	Cs 135	$1,2 \times 10^2$	$1,7 \times 10^5$
S 52040 OHAO	Cs 135	$6,0 \times 10^{-6}$	$3,0 \times 10^{-4}$
S 54030 OHAO (200 1)	Cs 135	$6,0 \times 10^{-6}$	$9,6 \times 10^{-4}$
S 54030 OHAO (400 1)	Cs 135	$6,0 \times 10^{-6}$	$9,6 \times 10^{-4}$
S 6204A VAKO	Cs 135	$2,9 \times 10^1$	$6,4 \times 10^2$
S 6204B VAKO	Cs 135	$5,4 \times 10^1$	$2,7 \times 10^2$
S 6204C VAKO	Cs 135	$9,0 \times 10^0$	$2,7 \times 10^1$
S 6204D VAKO	Cs 135	$1,2 \times 10^1$	$1,1 \times 10^2$
S 6402A VAKO	Cs 135	$7,2 \times 10^2$	$1,4 \times 10^3$
S 6402B VAKO	Cs 135	$2,2 \times 10^1$	$2,0 \times 10^2$
S 6402C VAKO	Cs 135	$1,9 \times 10^2$	$4,8 \times 10^3$
S 64020 OHAO (Typ II)	Cs 135	$6,0 \times 10^{-6}$	$6,0 \times 10^{-5}$
S 64020 OHAO (Typ III)	Cs 135	$6,0 \times 10^{-6}$	$6,0 \times 10^{-5}$
S 6403A VAKO	Ni 59	$4,2 \times 10^3$	$1,8 \times 10^5$
	Cs 135	$3,7 \times 10^{-1}$	$1,6 \times 10^1$
S 6403B VAKO	Cs 135	$1,6 \times 10^1$	$1,3 \times 10^2$
S 6403C VAKO	Cs 135	$2,6 \times 10^1$	$2,3 \times 10^2$
S 42020 KKNO	Ni 59	$1,0 \times 10^8$	$7,5 \times 10^{10}$

Tab.14: Fortsetzung

Datenblatt	Radionuklid	Aktivität in Bq	Gesamtaktivität in Bq
W 42100 CBNO	Cs 135	$9,0 \times 10^5$	$1,3 \times 10^{10}$
W 42150 CBNO	Cs 135	$9,0 \times 10^5$	$8,6 \times 10^9$
W 43080 CBNO	Cs 135	$3,0 \times 10^6$	$1,9 \times 10^{10}$
W 4205B WAAO	Ni 59	$1,1 \times 10^8$	$1,8 \times 10^{10}$
W 42130 WAAO	Cs 135	$8,4 \times 10^3$	$8,1 \times 10^5$

Tab. 14: Fortsetzung

Mobilisierungsgruppe	Gußbehälter		Stahlblech- und Betonbehälter	
	Aktivität in Bq		Aktivität in Bq	
	Ni 59	Cs 135	Ni 59	Cs 135
Bitumen	-	-	-	$2,6 \cdot 10^{10}$
Zement	-	-	$9,3 \cdot 10^{10}$	$4,6 \cdot 10^{10}$
Metall	$1,0 \cdot 10^{14}$	$5,1 \cdot 10^4$	$2,0 \cdot 10^4$	$1,8 \cdot 10^5$
Sonstige	$9,2 \cdot 10^{13}$	$1,9 \cdot 10^9$	$1,6 \cdot 10^{11}$	$9,3 \cdot 10^9$

Tab. 15: Zuordnung der ergänzten Radionuklide Ni 59 und Cs 135 zu Mobilisierungsgruppen, aufgeschlüsselt nach Gußbehälter sowie Stahlblech- und Betonbehälter

Bei der Radionuklidzusammensetzung des Abfallstromes 5.3.1 der Wiederaufarbeitungsanlage der DWK fehlen nach /9/ in den Datenblättern die für die Langzeitsicherheitsanalysen wichtigen Radionuklide Se 79, Rb 87, Mo 93, Sm 151, Cm 245, Cm 246, Cm 247 sowie Cm 248. Um diese Radionuklide bei der Kumulierung berücksichtigen zu können, wird folgendermaßen vorgegangen:

1. Gemäß dem mittleren Mengenaufkommen ist mit der Einlagerung von 8 Jahresmengen zu rechnen, d. h. bei einer Annahme von $500 \text{ t}_{\text{SM}}/\text{a}$ ergeben sich radioaktive Abfälle in einer Menge, die sich auf $4000 \text{ t}_{\text{SM}}$ beziehen.
2. Da die Aufteilung des Abfallstromes auf die Abfallgebände W 42080 WAA O und W 52080 WAA O bzgl. der o. g. Radionuklide nicht festliegt, werden die Aktivitäten der o. a. Radionuklide auf 1 t_{SM} bezogen.
3. Die in Tabelle 9 e in /9/ angegebenen Radionuklide beziehen sich auf ein Abfallgebände, wobei bei 1 t_{SM} nach Angaben der GSF 6,77 Abfallgebände anfallen würden.
4. Die in Tabelle 9 e aufgeführten Aktivitäten werden daher mit dem Faktor 6,77 multipliziert und dann auf $4000 \text{ t}_{\text{SM}}$ hochgerechnet.

5. Die Aktivitäten dieser Radionuklide werden im Rahmen der Kumulierung bei der Mobilisierungsgruppe Zement berücksichtigt, wobei als Verpackung Stahlblech- und Betonbehälter angenommen werden. Diese Annahme ist gerechtfertigt, da sich die Datenblätter W 42080 WAA O und W 52080 WAA O in dieser Hinsicht nicht unterscheiden. Die Aktivitäten werden im 22. Betriebsjahr angesetzt, da die W-Abfälle erst im letzten Zeitraum anfallen.

Damit ergeben sich die in Tabelle 16 aufgeführten Aktivitäten:

Radionuklid	Bq
Se 79	$5,9 \cdot 10^{10}$
Rb 87	$3,5 \cdot 10^4$
Mo 93	$2,2 \cdot 10^7$
Sm 151	$3,7 \cdot 10^{12}$
Cm 245	$3,5 \cdot 10^{10}$
Cm 246	$1,3 \cdot 10^{10}$
Cm 247	$5,5 \cdot 10^4$
Cm 248	$2,4 \cdot 10^5$

Tab.16: Zusätzlich bei der Kumulierung zu berücksichtigende Radionuklide und ihre Aktivitäten in W-Abfällen

4.5 Randbedingungen bei der Ermittlung der Gesamtaktivität für das Endlager Konrad

Die PTB stellt der GSF als Eingangsdaten für die Sicherheitsanalyse der Nachbetriebsphase Radionuklidzusammensetzung und -aktivität, aufgeschlüsselt nach vier Mobilisierungsgruppen (s. Kap. 4.2) und zwei Behältertypen (Gußbehälter, Stahlblech- und Betonbehälter), zur Verfügung. Dabei werden radionuklidspezifische Angaben gemacht und eine Gesamtaktivität errechnet.

Die auf diese Weise ermittelten Daten sind mit verschiedenen Unwägbarkeiten verknüpft. Dazu zählen z. B.:

1. Die Kumulierung erfolgt auf der Basis eines mittleren Mengenaufkommens bis zum Jahr 2000, das volumenmäßig der Kapazität des Endlagers Konrad entspricht. Dieses mittlere Mengenaufkommen beruht auf einer Abfrage bei den Abfallverursachern, wobei auch bestimmte Ansätze für den Zuwachs an Kernkraftwerken und den Zeitpunkt der Inbetriebnahme der Wiederaufarbeitungsanlage unterstellt wurden. Diese Annahmen berücksichtigen nur z.T. die inzwischen verstärkten Versuche der Abfallverursacher, die radioaktiven Abfälle zu minimieren, indem sie einerseits - soweit technisch machbar - Abfälle aufkonzentrieren und andererseits mehr Abfälle der normalen Verwertung (Schrott etc.) zuführen. Konsequenzen daraus sind evtl. eine andere Zusammensetzung der Abfälle im Endlager (z.B. weniger K-Abfälle, dafür aber mehr S-Abfälle, L-Abfälle, U-Abfälle) bei gleicher Betriebszeit des Endlagers und/oder eine verlängerte Betriebszeit des Endlagers und damit eine größere Dominanz der Abfälle aus der Wiederaufarbeitung.
2. Bei der Kumulierung sind Annahmen zu einer Verteilung der radioaktiven Abfälle auf Behältertypen gemacht worden. Dabei zeigt sich, daß die Betonbehälter Typ III rd. 31% des Endlagersvolumens einnehmen. Z.Z. laufen bei der DWK Überlegungen, diesen Behältertyp durch Container Typ V oder Gußbehälter zu ersetzen. Damit ist eine größere Ausnutzung des Endla

gervolumens durch radioaktive Abfälle aufgrund eines geänderten Brutto-/Nettoverhältnisses möglich.

3. Grundlage der Kumulierung sind die in den Datenblättern angegebenen mittleren Werte gewesen. Bei einer Reihe von Abfällen (insbesondere F-, I- und K-Abfällen) liegt zwischen dem mittleren und oberen Wert mehr als eine Größenordnung.
4. Grundlage der Kumulierung sind die nuklidspezifischen Angaben in den Datenblättern gewesen. Die in einer Reihe von Abfällen ausgewiesenen sonstigen α - und β/γ -Strahler sind nicht berücksichtigt worden, obwohl sie mit einem Anteil von 10 % zur Gesamtaktivität beitragen.
5. Die radionuklidspezifischen Aktivitäten der Abfallverursacher sind aufgrund der Ortsdosisleistungen z. T. reduziert und auf den Datenblättern in /1/ angegeben worden. Diese Reduzierung wird bei der Kumulierung entsprechend berücksichtigt. Bei Beibehaltung der vom Abfallverursacher angegebenen Aktivitäten führt dies entweder bei Beibehaltung der vorgesehenen Verpackung zu einer größeren Anzahl an Abfallgebinden oder zu einer gleichbleibenden Anzahl von Abfallgebinden, was mit einer höheren Aktivität je Abfallgebinde als bei der Kumulierung unterstellt verknüpft ist und zu einer größeren Anzahl an Gußbehältern im Endlager führt.
6. Bei der Kumulierung sind Abfälle noch nicht berücksichtigt, die noch nicht auf Datenblättern vorliegen (z. B. Landessammelstellen, Bundeswehr) oder die nicht mehr in diese Arbeiten einfließen konnten (Landessammelstelle Berlin), die aber z.B. hohe Aktivitäten an H 3 und C 14 besitzen.
7. Die Angaben auf den Datenblätter der K-Abfälle beruhen auf einer KWU-Studie /7/, die auf der Basis von Betriebserfahrungen Plausibilitätsbetrachtungen zu Radionuklidzusammensetzungen ausgehend von Schlüsselnukliden (z. B. Co 60) diskutiert. Entsprechend sind auch Ergänzungen der für die Nachbetriebsphase wichtigen Radionuklide Cs 135 und Ni 59 in Abfällen erfolgt. Änderungen im Prozeß der Anlagen (z. B. Kernkraftwerke) und Materialänderungen (aktivierte Korrosionsprodukte) während der Laufzeit solcher Anlagen führen ggf. zu

Änderungen in den Verhältnissen der Radionuklide zueinander.

8. Der Vergleich der Kumulierung auf der Datenbasis 8/82 /10/ und 12/84 zeigt, daß die in das Endlager Konrad eingebrachte Gesamtaktivität auf der Datenbasis 12/84 um 35% höher liegt.

Aufgrund dieser Unsicherheiten wird ein Faktor 2 als Sicherheitszuschlag zu den Ergebnissen der Kumulierung für notwendig gehalten.

Mit diesem Faktor werden die für die einzelnen Zeitschritte errechneten Aktivitäten multipliziert. Die sich daraus ergebenden nuklidspezifischen Aktivitäten bilden die Basis für die Abklingrechnungen.

5. Rechnungen mit dem Programm KORIGEN

Das vom Kernforschungszentrum Karlsruhe entwickelte Programm KORIGEN erlaubt die Berechnung der zeitlichen Entwicklung von Gemischen radioaktiver Nuklide /11/, /12/. Dabei werden gespeicherte Daten über Halbwertszeiten, Zerfallsketten (z.B. bei Spaltprodukten) und verzweigte Zerfallsketten (z.B. bei Aktiniden) verwendet. Als Eingangsdaten dienen die in Bq angegebenen Aktivitäten der in den Inventaren vorhandenen Einzelnuclide. Als Ausgangsdaten ergeben sich Stoffmenge in mol, Masse in g, Aktivität in Bq und Wärmeleistung in W für die Eingangsnuklide und alle Zerfallsprodukte in Abhängigkeit von der Zeit.

Zur Berechnung der Kumulation der Abfallinventare infolge des Einlagerungsvorganges ist das Programm KORIGEN in Zeitabschnitten von 7 bzw. 8 Jahren wiederholt angewendet worden. Dazu wird zunächst das Abfallaufkommen, d.h. die Anzahl der Behälter, die pro Jahr zur Einlagerung vorgesehen sind, für jedes Datenblatt für die Jahre 1-7, 8-14, 15-22 sowie 1-22 ermittelt und nach Behältertypen geordnet in der Tabelle 10 zusammengefaßt (s. Kap. 3). In den jeweils letzten Zeilen dieser Tabellen sind die Gesamtzahlen der Behälter über alle Datenblätter summiert für jeden Behältertyp angegeben. Insgesamt sind Daten für 24 verschiedene Behältertypen vorhanden.

Die zu den jeweiligen Datenblättern gehörigen Radionuklidzusammensetzungen und -aktivitäten /1/ sind nuklidweise mit den entsprechenden Behälterzahlen der drei Jahresgruppen multipliziert worden. Anschließend ist mit KORIGEN der Zerfall bis zur Einlagerung der nächsten Jahresgruppe berechnet worden.

Im Sinne der Konservativität der Ergebnisse wird angenommen, daß das Inventar der ersten Jahresgruppe am Ende des 7. Jahres eingelagert wird und bis zum Ende des 14. Jahres zerfällt. Am Ende des 14. Jahres wird das Inventar der zweiten Jahresgruppe hinzu addiert und der gemeinsame Zerfall bis zum Ende des

22. Jahres berechnet. Anschließend wird das Inventar der dritten Jahresgruppe hinzuaddiert und so das Inventar am Ende der Einlagerungsphase, d. h. am Ende des 22. Betriebsjahres ermittelt.

Im Anhang 1 wird das auf diese Weise für jeden Referenzabfall errechnete Inventar in einem weiteren Schritt für jede der 24 Behältertypen zu einem Gesamtinventar zusammengefaßt, welches dann als Eingangsdaten (INITIAL) der nachfolgenden Zerfallsrechnungen für die Nachbetriebsphase zugrundeliegt. Um ein gemittelttes Inventar für einen Behälter des jeweiligen Behältertyps zu erhalten, wird noch durch die Gesamtzahl der Behälter (1.- 22. Jahr) dividiert.

Im Anhang 2 wird das für jeden Referenzabfall errechnete Radionuklidinventar für jede der vier Mobilisierungsgruppen, getrennt nach Stahlblech- und Betonbehälter bzw. Gußbehälter, zu einem Gesamtinventar zusammengefaßt, welches dann analog zum Vorgehen in Anhang 1 als Eingangsinventar (INITIAL) der nachfolgenden Zerfallsrechnungen für die Nachbetriebsphase zugrundeliegt.

6. Darstellung der Rechenergebnisse

Im Anhang 1 sind die nach dem in Kap. 5 geschilderten Verfahren erhaltenen Ergebnisse für die gemittelten, nach Behältertypen geordneten Radionuklidinventare für einen Zeitraum von 1 bis 1000 Jahren nach Beendigung der Einlagerungsphase in den Tabellen 17 bis 40 aufgeführt.

Die Radionuklide jedes Behältertyps sind in drei Gruppen geordnet (LIGHT ELEMENTS, ACTINIDES und FISSION PRODUCTS). In jeder dieser Gruppen erscheint zuerst die Aktivität in Bq, dann die thermische Leistung in W als Funktion der Einlagerungsdauer. Am Schluß der Tabellen eines Behältertyps sind in einer gesonderten Tabelle (LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS) die Gesamtaktivität und die gesamte thermische Leistung aufgeführt.

Im Anhang 2 sind die Rechenergebnisse auf der Basis der Mobilisierungsgruppen unter Berücksichtigung der in Kap. 4.3 bis 4.5 erläuterten Ergänzungen und Annahmen aufgeführt.

Tab. 41 enthält die nuklidspezifischen Gesamtaktivitäten für die Zeitschritte 1. - 7., 8. - 14. und 15. - 22. Betriebsjahr, aufgeschlüsselt nach den vier Mobilisierungsgruppen und getrennt für die Stahlblech- und Betonbehälter einerseits und die Gußbehälter andererseits. Diese Daten sind als Eingangswerte in die Sicherheitsanalysen für die Nachbetriebsphase eingeflossen. Mit * sind in Tab. 41 die Radionuklide gekennzeichnet, die gemäß Kap. 4.4 im Hinblick auf die Nachbetriebsphase ergänzt worden sind.

Die Tabellen 42 bis 45 zeigen das kumulierte Gesamtinventar im Endlager Konrad für den Zeitraum 1 bis 10^7 Jahre nach Beendigung der Einlagerungsphase. Die Tabellen sind in vier Gruppen für Zeiträume von 1 bis 50 Jahren, 70 bis 2000 Jahren, 3000 bis 10^5 Jahren sowie $2 \cdot 10^5$ bis 10^7 Jahren geordnet. Für jeden Zeitraum erscheinen jeweils für LIGHT ELEMENTS, ACTINIDES und

FISSION PRODUCTS die Nuklidstoffmengen in mol (GRAM ATOMS) Nuklidmasse in g, Aktivität in Bq sowie thermische Leistungen in W als Funktion der Einlagerungsdauer. Am Ende jeden Zeitraumes sind in einer gesonderten Tabelle (LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS) diese Größen über alle Radionuklide summiert dargestellt.

Mit KORIGEN lassen sich nicht alle im Endlager auftretenden Radionuklide berechnen. Die folgenden Radionuklide, die in den radioaktiven Abfällen auftreten, sind im Programm KORIGEN nicht enthalten:

Co 57, In 111, I 125, Hg 197, Hg 203, Tl 201, Hf 175 sowie Ba 133.

Die Behältertypen und Referenzabfälle, in denen diese Radionuklide vorkommen, sind dazu in einer gesonderten Tabelle (Tab. 46) aufgeführt. Diese Tabelle enthält auch die Aktivitäten dieser Radionuklide für alle Datenblätter sowie die Wärmeleistungen für alle Behältertypen am Ende der Einlagerungsphase (Ende des 22. Jahres).

Bei weiterführenden Betrachtungen muß von Fall zu Fall entschieden werden, ob diese Radionuklide zu berücksichtigen sind.

7. Literatur

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A n h a n g 1:

Ergebnisse der behälterspezifischen Rechnungen

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = FASS 200 L

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	2.30E+07	2.30E+07	2.30E+07	2.30E+07	2.30E+07	2.30E+07	2.29E+07	2.27E+07	2.25E+07	2.17E+07	2.04E+07
NA 22	1.50E+05	1.15E+05	8.81E+04	3.96E+04	1.05E+04	7.29E+02	2.47E-01	4.07E-07	1.10E-18	0.0	0.0
S 35	5.50E+04	3.10E+03	1.75E+02	3.12E-02	1.77E-08	5.72E-21	0.0	0.0	0.0	0.0	0.0
CL 36	1.50E+05	1.50E+05	1.50E+05	1.50E+05	1.50E+05	1.50E+05	1.50E+05	1.50E+05	1.50E+05	1.50E+05	1.50E+05
CA 41	1.50E+04	1.50E+04	1.50E+04	1.50E+04	1.50E+04	1.50E+04	1.50E+04	1.50E+04	1.50E+04	1.49E+04	1.49E+04
CA 45	6.50E+04	1.38E+04	2.91E+03	2.76E+01	1.17E-02	2.10E-09	1.22E-29	0.0	0.0	0.0	0.0
SC 46	4.80E+03	2.34E+02	1.14E+01	1.33E-03	3.66E-10	2.79E-23	0.0	0.0	0.0	0.0	0.0
CR 51	4.00E+05	4.32E+01	4.65E-03	5.84E-15	8.51E-35	0.0	0.0	0.0	0.0	0.0	0.0
MN 54	3.30E+06	1.47E+06	6.53E+05	5.75E+04	1.00E+03	3.04E-01	8.52E-12	2.20E-29	0.0	0.0	0.0
FE 55	4.50E+08	3.45E+08	2.64E+08	1.19E+08	3.13E+07	2.18E+06	7.34E+02	1.20E-03	3.18E-15	0.0	0.0
FE 59	6.00E+04	2.17E+02	7.81E-01	3.67E-08	2.24E-20	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	1.10E+04	3.08E+02	8.62E+00	1.89E-04	3.24E-12	9.52E-28	0.0	0.0	0.0	0.0	0.0
CO 60	1.40E+08	1.23E+08	1.08E+08	7.26E+07	3.76E+07	1.01E+07	1.95E+05	2.72E+02	5.30E-04	3.90E-21	0.0
NI 59	2.20E+05	2.20E+05	2.20E+05	2.20E+05	2.20E+05	2.20E+05	2.20E+05	2.20E+05	2.20E+05	2.19E+05	2.18E+05
NI 63	2.40E+07	2.38E+07	2.37E+07	2.31E+07	2.23E+07	2.07E+07	1.65E+07	1.13E+07	5.32E+06	5.56E+05	1.29E+04
ZN 65	6.00E+06	2.13E+06	7.53E+05	3.35E+04	1.87E+02	5.80E-03	1.74E-16	0.0	0.0	0.0	0.0
TOTAL	6.48E+08	5.19E+08	4.20E+08	2.38E+08	1.15E+08	5.63E+07	3.99E+07	3.44E+07	2.82E+07	2.26E+07	2.08E+07

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = FASS 200 L

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	1.82E-07	1.82E-07	1.82E-07	1.82E-07	1.82E-07	1.82E-07	1.81E-07	1.80E-07	1.78E-07	1.72E-07	1.62E-07
NA 22	5.74E-08	4.40E-08	3.37E-08	1.52E-08	4.00E-09	2.79E-10	9.45E-14	1.56E-19	4.22E-31	0.0	0.0
S 35	1.48E-09	8.31E-11	4.68E-12	8.38E-16	4.76E-22	1.53E-34	0.0	0.0	0.0	0.0	0.0
CL 36	5.93E-09	5.93E-09	5.93E-09	5.93E-09	5.93E-09	5.93E-09	5.93E-09	5.93E-09	5.93E-09	5.92E-09	5.92E-09
CA 41	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.02E-09	1.02E-09	1.02E-09
CA 45	8.04E-10	1.70E-10	3.60E-11	3.41E-13	1.45E-16	2.60E-23	1.51E-43	0.0	0.0	0.0	0.0
SC 46	1.63E-09	7.96E-11	3.88E-12	4.51E-16	1.24E-22	9.47E-36	0.0	0.0	0.0	0.0	0.0
CR 51	2.31E-09	2.50E-13	2.69E-17	3.38E-29	4.92E-49	0.0	0.0	0.0	0.0	0.0	0.0
MN 54	4.44E-07	1.98E-07	8.79E-08	7.74E-09	1.35E-10	4.10E-14	1.15E-24	2.96E-42	0.0	0.0	0.0
FE 55	1.67E-05	1.28E-05	9.82E-06	4.41E-06	1.16E-06	8.10E-08	2.73E-11	4.45E-17	1.18E-28	0.0	0.0
FE 59	1.51E-08	5.46E-11	1.97E-13	9.24E-21	5.65E-33	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	1.78E-09	4.98E-11	1.39E-12	3.05E-17	5.24E-25	1.54E-40	0.0	0.0	0.0	0.0	0.0
CO 60	5.84E-05	5.12E-05	4.49E-05	3.02E-05	1.57E-05	4.21E-06	8.14E-08	1.14E-10	2.21E-16	1.62E-33	0.0
NI 59	3.79E-08	3.79E-08	3.79E-08	3.79E-08	3.79E-08	3.79E-08	3.79E-08	3.78E-08	3.78E-08	3.77E-08	3.75E-08
NI 63	2.58E-07	2.56E-07	2.54E-07	2.48E-07	2.39E-07	2.22E-07	1.77E-07	1.21E-07	5.71E-08	5.96E-09	1.38E-10
ZN 65	5.68E-07	2.01E-07	7.13E-08	3.17E-09	1.77E-11	5.49E-16	1.65E-29	0.0	0.0	0.0	0.0
TOTAL	7.67E-05	6.49E-05	5.54E-05	3.52E-05	1.73E-05	4.74E-06	4.84E-07	3.47E-07	2.80E-07	2.22E-07	2.06E-07

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = FASS 200 L

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	3.80E+04	6.00E+04	6.00E+04	6.00E+04	6.00E+04	6.00E+04	6.01E+04	6.04E+04	6.10E+04	6.34E+04	6.68E+04
TL208	4.80E+06	9.89E+04	1.06E+05	1.30E+05	1.65E+05	2.02E+05	2.22E+05	2.23E+05	2.23E+05	2.23E+05	2.23E+05
TL209	3.10E-07	4.01E-07	5.15E-07	1.02E-06	2.53E-06	9.83E-06	1.12E-04	9.24E-04	7.78E-03	1.18E-01	8.12E-01
PB209	1.40E-05	1.82E-05	2.34E-05	4.61E-05	1.15E-04	4.47E-04	5.11E-03	4.20E-02	3.54E-01	5.35E+00	3.69E+01
PB210	2.70E+05	2.73E+05	2.77E+05	2.86E+05	2.99E+05	3.21E+05	3.55E+05	3.70E+05	3.68E+05	3.48E+05	3.25E+05
PB211	6.00E+04	6.02E+04	6.02E+04	6.02E+04	6.02E+04	6.02E+04	6.03E+04	6.05E+04	6.12E+04	6.35E+04	6.70E+04
PB212	2.40E+05	2.75E+05	2.95E+05	3.62E+05	4.59E+05	5.62E+05	6.18E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
PB214	3.80E+05	3.80E+05	3.80E+05	3.80E+05	3.80E+05	3.79E+05	3.79E+05	3.77E+05	3.73E+05	3.66E+05	3.48E+05
BI210	2.60E+05	2.74E+05	2.77E+05	2.86E+05	3.00E+05	3.21E+05	3.55E+05	3.70E+05	3.68E+05	3.48E+05	3.25E+05
BI211	6.00E+04	6.02E+04	6.02E+04	6.02E+04	6.02E+04	6.02E+04	6.03E+04	6.05E+04	6.12E+04	6.35E+04	6.70E+04
BI212	2.40E+05	2.75E+05	2.95E+05	3.62E+05	4.59E+05	5.62E+05	6.18E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
BI213	1.40E-05	1.82E-05	2.34E-05	4.61E-05	1.15E-04	4.47E-04	5.11E-03	4.20E-02	3.54E-01	5.35E+00	3.69E+01
BI214	3.80E+05	3.80E+05	3.80E+05	3.80E+05	3.79E+05	3.79E+05	3.77E+05	3.73E+05	3.66E+05	3.48E+05	3.25E+05
PO210	2.70E+05	2.69E+05	2.72E+05	2.83E+05	3.00E+05	3.21E+05	3.55E+05	3.70E+05	3.68E+05	3.48E+05	3.25E+05
PO211	1.20E+02	1.80E+02	1.80E+02	1.80E+02	1.80E+02	1.80E+02	1.81E+02	1.82E+02	1.84E+02	1.91E+02	2.01E+02
PO212	1.60E+05	1.77E+05	1.89E+05	2.32E+05	2.94E+05	3.60E+05	3.96E+05	3.98E+05	3.98E+05	3.98E+05	3.98E+05
PO213	1.40E-05	1.78E-05	2.29E-05	4.51E-05	1.12E-04	4.37E-04	5.00E-03	4.11E-02	3.46E-01	5.23E+00	3.61E+01
PO214	2.40E+05	3.80E+05	3.80E+05	3.80E+05	3.79E+05	3.79E+05	3.77E+05	3.73E+05	3.66E+05	3.48E+05	3.25E+05
PO215	3.80E+04	6.02E+04	6.02E+04	6.02E+04	6.02E+04	6.02E+04	6.03E+04	6.05E+04	6.12E+04	6.35E+04	6.70E+04
PO216	2.40E+05	2.75E+05	2.95E+05	3.62E+05	4.59E+05	5.62E+05	6.18E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
PO218	2.40E+05	3.80E+05	3.80E+05	3.80E+05	3.79E+05	3.79E+05	3.77E+05	3.73E+05	3.66E+05	3.48E+05	3.25E+05
AT217	1.40E-05	1.82E-05	2.34E-05	4.61E-05	1.15E-04	4.47E-04	5.11E-03	4.20E-02	3.54E-01	5.35E+00	3.69E+01
RN219	6.00E+04	6.02E+04	6.02E+04	6.02E+04	6.02E+04	6.02E+04	6.03E+04	6.05E+04	6.12E+04	6.35E+04	6.70E+04
RN220	2.40E+05	2.75E+05	2.95E+05	3.62E+05	4.59E+05	5.62E+05	6.18E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
RN222	3.00E+05	3.80E+05	3.80E+05	3.80E+05	3.79E+05	3.79E+05	3.77E+05	3.73E+05	3.66E+05	3.48E+05	3.25E+05
FR221	1.40E-05	1.82E-05	2.34E-05	4.61E-05	1.15E-04	4.47E-04	5.11E-03	4.20E-02	3.54E-01	5.35E+00	3.69E+01
FR223	5.40E+02	8.40E+02	8.40E+02	8.40E+02	8.40E+02	8.41E+02	8.43E+02	8.47E+02	8.57E+02	8.90E+02	9.38E+02
RA223	6.00E+04	6.02E+04	6.02E+04	6.02E+04	6.02E+04	6.02E+04	6.03E+04	6.05E+04	6.12E+04	6.35E+04	6.70E+04
RA224	2.40E+05	2.75E+05	2.95E+05	3.62E+05	4.59E+05	5.62E+05	6.18E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
RA225	1.40E-05	1.82E-05	2.34E-05	4.61E-05	1.15E-04	4.47E-04	5.11E-03	4.20E-02	3.54E-01	5.35E+00	3.69E+01
RA226	3.80E+05	3.80E+05	3.80E+05	3.80E+05	3.79E+05	3.79E+05	3.77E+05	3.73E+05	3.66E+05	3.48E+05	3.25E+05
RA228	2.90E+05	3.23E+05	3.52E+05	4.23E+05	5.03E+05	5.79E+05	6.18E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
AC225	1.40E-05	1.82E-05	2.34E-05	4.61E-05	1.15E-04	4.47E-04	5.11E-03	4.20E-02	3.54E-01	5.35E+00	3.69E+01
AC227	6.00E+04	6.00E+04	6.00E+04	6.00E+04	6.00E+04	6.01E+04	6.02E+04	6.05E+04	6.12E+04	6.35E+04	6.70E+04
AC228	2.90E+05	3.23E+05	3.52E+05	4.23E+05	5.03E+05	5.79E+05	6.18E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
TH227	6.00E+04	5.93E+04	5.93E+04	5.93E+04	5.93E+04	5.93E+04	5.94E+04	5.97E+04	6.03E+04	6.27E+04	6.60E+04
TH228	2.60E+05	2.75E+05	2.94E+05	3.61E+05	4.59E+05	5.62E+05	6.18E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
TH229	1.40E-05	1.82E-05	2.34E-05	4.61E-05	1.15E-04	4.47E-04	5.11E-03	4.20E-02	3.54E-01	5.35E+00	3.69E+01
TH230	2.10E+05	2.10E+05	2.10E+05	2.10E+05	2.10E+05	2.11E+05	2.11E+05	2.12E+05	2.15E+05	2.22E+05	2.35E+05
TH231	2.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05
TH232	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
TH234	5.80E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06
PA231	6.00E+04	6.00E+04	6.00E+04	6.01E+04	6.01E+04	6.02E+04	6.04E+04	6.07E+04	6.14E+04	6.35E+04	6.69E+04
PA233	2.00E+03	2.24E+03	2.51E+03	3.46E+03	5.45E+03	1.06E+04	3.05E+04	6.62E+04	1.31E+05	2.75E+05	4.03E+05
PA234M	5.20E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06
PA234	6.70E+03	7.02E+03	7.02E+03	7.02E+03	7.02E+03	7.02E+03	7.02E+03	7.02E+03	7.02E+03	7.02E+03	7.02E+03
U 232	9.90E-03	9.81E-03	9.72E-03	9.44E-03	9.00E-03	8.17E-03	6.12E-03	3.78E-03	1.44E-03	8.05E-05	6.54E-07
U 233	3.90E-02	4.92E-02	6.06E-02	1.01E-01	1.97E-01	5.42E-01	3.19E+00	1.38E+01	5.73E+01	3.31E+02	1.09E+03
U 234	2.50E+06	2.51E+06	2.51E+06	2.52E+06	2.54E+06	2.58E+06	2.68E+06	2.80E+06	2.93E+06	3.03E+06	3.05E+06

U 235	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05
U 236	4.70E+03	4.71E+03	4.72E+03	4.75E+03	4.81E+03	4.91E+03	5.22E+03	5.73E+03	6.75E+03	9.75E+03	1.45E+04	
U 237	6.80E+05	1.29E+06	1.23E+06	1.06E+06	8.36E+05	5.16E+05	1.22E+05	1.10E+04	8.93E+01	4.79E-05	1.70E-15	
U 238	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06	5.40E+06
U 240	4.60E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07
NP237	2.00E+03	2.24E+03	2.51E+03	3.46E+03	5.45E+03	1.06E+04	3.05E+04	6.62E+04	1.31E+05	2.75E+05	4.03E+05	
NP238	1.60E-02	3.34E-02	3.32E-02	3.28E-02	3.20E-02	3.06E-02	2.67E-02	2.12E-02	1.35E-02	3.43E-03	3.51E-04	
NP239	1.80E+01	3.70E+01	3.70E+01	3.70E+01	3.70E+01	3.69E+01	3.68E+01	3.67E+01	3.63E+01	3.53E+01	3.37E+01	
NP240M	4.60E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07	9.59E-07
PU238	1.50E+09	1.49E+09	1.48E+09	1.44E+09	1.39E+09	1.28E+09	1.01E+09	6.81E+08	3.09E+08	2.89E+07	5.58E+05	
PU239	2.20E+08	2.20E+08	2.20E+08	2.20E+08	2.20E+08	2.20E+08	2.20E+08	2.19E+08	2.19E+08	2.17E+08	2.14E+08	
PU240	3.50E+08	3.50E+08	3.50E+08	3.50E+08	3.50E+08	3.49E+08	3.48E+08	3.46E+08	3.43E+08	3.32E+08	3.15E+08	
PU241	5.40E+10	5.15E+10	4.91E+10	4.25E+10	3.34E+10	2.06E+10	4.87E+09	4.39E+08	3.57E+06	1.91E+00	6.78E-11	
PU242	1.20E+06	1.20E+06	1.20E+06	1.20E+06	1.20E+06	1.20E+06	1.20E+06	1.20E+06	1.20E+06	1.20E+06	1.20E+06	1.20E+06
PU244	9.60E-07	9.60E-07	9.60E-07	9.60E-07	9.60E-07	9.60E-07	9.60E-07	9.60E-07	9.60E-07	9.60E-07	9.60E-07	9.60E-07
AM241	7.00E+08	7.84E+08	8.63E+08	1.08E+09	1.37E+09	1.77E+09	2.20E+09	2.17E+09	1.86E+09	1.15E+09	5.16E+08	
AM242M	6.70E+00	6.67E+00	6.64E+00	6.55E+00	6.40E+00	6.12E+00	5.34E+00	4.25E+00	2.69E+00	6.86E-01	7.02E-02	
AM242	3.20E+00	6.64E+00	6.61E+00	6.52E+00	6.37E+00	6.09E+00	5.31E+00	4.23E+00	2.68E+00	6.83E-01	6.99E-02	
AM243	3.70E+01	3.70E+01	3.70E+01	3.70E+01	3.70E+01	3.69E+01	3.68E+01	3.67E+01	3.63E+01	3.53E+01	3.37E+01	
CM242	2.60E+03	5.56E+02	1.22E+02	6.52E+00	5.27E+00	5.03E+00	4.39E+00	3.50E+00	2.22E+00	5.64E-01	5.78E-02	
CM243	3.00E+01	2.93E+01	2.86E+01	2.66E+01	2.35E+01	1.85E+01	8.90E+00	2.64E+00	2.32E-01	1.58E-04	8.27E-10	
CM244	5.90E+03	5.68E+03	5.47E+03	4.87E+03	4.03E+03	2.75E+03	8.71E+02	1.29E+02	2.80E+00	2.90E-05	1.42E-13	
TOTAL	5.68E+10	5.44E+10	5.20E+10	4.56E+10	3.67E+10	2.43E+10	8.68E+09	3.88E+09	2.77E+09	1.76E+09	1.08E+09	

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = FASS 200 L

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	3.02E-09	4.76E-09	4.76E-09	4.76E-09	4.76E-09	4.76E-09	4.77E-09	4.79E-09	4.84E-09	5.03E-09	5.30E-09
TL208	3.05E-06	6.29E-08	6.73E-08	8.26E-08	1.05E-07	1.28E-07	1.41E-07	1.42E-07	1.42E-07	1.42E-07	1.42E-07
TL209	1.39E-19	1.80E-19	2.31E-19	4.56E-19	1.14E-18	4.42E-18	5.05E-17	4.15E-16	3.49E-15	5.29E-14	3.65E-13
PB209	4.35E-19	5.66E-19	7.28E-19	1.43E-18	3.57E-18	1.39E-17	1.59E-16	1.30E-15	1.10E-14	1.66E-13	1.15E-12
PB210	1.69E-09	1.71E-09	1.73E-09	1.79E-09	1.88E-09	2.01E-09	2.22E-09	2.32E-09	2.31E-09	2.18E-09	2.04E-09
PB211	4.86E-09	4.87E-09	4.87E-09	4.87E-09	4.87E-09	4.87E-09	4.88E-09	4.90E-09	4.96E-09	5.15E-09	5.42E-09
PB212	1.24E-08	1.42E-08	1.52E-08	1.86E-08	2.36E-08	2.89E-08	3.18E-08	3.19E-08	3.19E-08	3.19E-08	3.19E-08
PB214	3.28E-08	3.28E-08	3.28E-08	3.27E-08	3.27E-08	3.26E-08	3.25E-08	3.21E-08	3.16E-08	3.00E-08	2.80E-08
BI210	1.62E-08	1.71E-08	1.73E-08	1.78E-08	1.87E-08	2.00E-08	2.21E-08	2.31E-08	2.29E-08	2.17E-08	2.03E-08
BI211	6.47E-08	6.49E-08	6.49E-08	6.48E-08	6.48E-08	6.49E-08	6.50E-08	6.53E-08	6.60E-08	6.85E-08	7.22E-08
BI212	1.10E-07	1.27E-07	1.36E-07	1.66E-07	2.11E-07	2.58E-07	2.84E-07	2.85E-07	2.85E-07	2.85E-07	2.85E-07
BI213	1.59E-18	2.07E-18	2.66E-18	5.24E-18	1.31E-17	5.08E-17	5.81E-16	4.77E-15	4.02E-14	6.08E-13	4.19E-12
BI214	1.32E-07	1.32E-07	1.32E-07	1.32E-07	1.31E-07	1.31E-07	1.30E-07	1.29E-07	1.27E-07	1.21E-07	1.13E-07
PO210	2.34E-07	2.33E-07	2.35E-07	2.45E-07	2.60E-07	2.78E-07	3.08E-07	3.21E-07	3.19E-07	3.02E-07	2.82E-07
PO211	1.46E-10	2.20E-10	2.20E-10	2.20E-10	2.20E-10	2.20E-10	2.20E-10	2.21E-10	2.23E-10	2.32E-10	2.44E-10
PO212	2.30E-07	2.53E-07	2.71E-07	3.33E-07	4.22E-07	5.17E-07	5.69E-07	5.70E-07	5.70E-07	5.70E-07	5.70E-07
PO213	1.92E-17	2.43E-17	3.13E-17	6.17E-17	1.54E-16	5.98E-16	6.84E-15	5.62E-14	4.73E-13	7.16E-12	4.94E-11
PO214	3.01E-07	4.77E-07	4.77E-07	4.77E-07	4.76E-07	4.75E-07	4.73E-07	4.68E-07	4.60E-07	4.37E-07	4.08E-07
PO215	4.58E-08	7.25E-08	7.25E-08	7.25E-08	7.25E-08	7.25E-08	7.27E-08	7.30E-08	7.38E-08	7.66E-08	8.08E-08
PO216	2.57E-07	2.95E-07	3.16E-07	3.87E-07	4.91E-07	6.01E-07	6.62E-07	6.64E-07	6.64E-07	6.64E-07	6.64E-07
PO218	2.35E-07	3.72E-07	3.72E-07	3.72E-07	3.72E-07	3.71E-07	3.69E-07	3.65E-07	3.59E-07	3.41E-07	3.18E-07
AT217	1.62E-17	2.10E-17	2.70E-17	5.32E-17	1.33E-16	5.16E-16	5.90E-15	4.84E-14	4.08E-13	6.17E-12	4.26E-11
RN219	6.68E-08	6.69E-08	6.69E-08	6.69E-08	6.69E-08	6.69E-08	6.70E-08	6.74E-08	6.81E-08	7.07E-08	7.45E-08
RN220	2.46E-07	2.83E-07	3.03E-07	3.71E-07	4.71E-07	5.77E-07	6.35E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07
RN222	2.69E-07	3.40E-07	3.40E-07	3.40E-07	3.40E-07	3.39E-07	3.37E-07	3.34E-07	3.28E-07	3.12E-07	2.91E-07
FR221	1.45E-17	1.88E-17	2.42E-17	4.77E-17	1.19E-16	4.62E-16	5.29E-15	4.34E-14	3.66E-13	5.54E-12	3.82E-11
FR223	3.79E-11	5.90E-11	5.90E-11	5.90E-11	5.90E-11	5.90E-11	5.92E-11	5.95E-11	6.01E-11	6.24E-11	6.58E-11
RA223	5.75E-08	5.76E-08	5.76E-08	5.76E-08	5.76E-08	5.76E-08	5.77E-08	5.80E-08	5.86E-08	6.09E-08	6.42E-08
RA224	2.23E-07	2.55E-07	2.74E-07	3.36E-07	4.26E-07	5.21E-07	5.74E-07	5.75E-07	5.75E-07	5.75E-07	5.75E-07
RA225	2.65E-19	3.45E-19	4.44E-19	8.75E-19	2.18E-18	8.47E-18	9.69E-17	7.96E-16	6.70E-15	1.01E-13	7.00E-13
RA226	2.97E-07	2.97E-07	2.97E-07	2.96E-07	2.96E-07	2.96E-07	2.94E-07	2.91E-07	2.86E-07	2.72E-07	2.54E-07
RA228	6.04E-10	6.72E-10	7.33E-10	8.82E-10	1.05E-09	1.20E-09	1.29E-09	1.29E-09	1.29E-09	1.29E-09	1.29E-09
AC225	1.33E-17	1.73E-17	2.23E-17	4.39E-17	1.09E-16	4.25E-16	4.86E-15	3.99E-14	3.36E-13	5.09E-12	3.51E-11
AC227	7.86E-10	7.86E-10	7.86E-10	7.86E-10	7.86E-10	7.86E-10	7.88E-10	7.92E-10	8.01E-10	8.32E-10	8.77E-10
AC228	6.78E-08	7.54E-08	8.22E-08	9.89E-08	1.17E-07	1.35E-07	1.44E-07	1.45E-07	1.45E-07	1.45E-07	1.45E-07
TH227	5.91E-08	5.84E-08	5.84E-08	5.84E-08	5.84E-08	5.84E-08	5.85E-08	5.88E-08	5.94E-08	6.17E-08	6.50E-08
TH228	2.30E-07	2.43E-07	2.60E-07	3.20E-07	4.06E-07	4.97E-07	5.47E-07	5.49E-07	5.49E-07	5.49E-07	5.49E-07
TH229	1.16E-17	1.51E-17	1.94E-17	3.82E-17	9.52E-17	3.70E-16	4.23E-15	3.48E-14	2.93E-13	4.43E-12	3.06E-11
TH230	1.61E-07	1.61E-07	1.61E-07	1.61E-07	1.61E-07	1.61E-07	1.61E-07	1.62E-07	1.64E-07	1.70E-07	1.80E-07
TH231	4.40E-09	5.92E-09	5.92E-09	5.92E-09	5.92E-09	5.92E-09	5.92E-09	5.92E-09	5.92E-09	5.92E-09	5.92E-09
TH232	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07
TH234	6.36E-08	5.92E-08	5.92E-08	5.92E-08	5.92E-08	5.92E-08	5.92E-08	5.92E-08	5.92E-08	5.92E-08	5.92E-08
PA231	4.95E-08	4.95E-08	4.95E-08	4.95E-08	4.96E-08	4.96E-08	4.98E-08	5.01E-08	5.07E-08	5.24E-08	5.52E-08
PA233	1.23E-10	1.38E-10	1.54E-10	2.12E-10	3.34E-10	6.50E-10	1.87E-09	4.06E-09	8.06E-09	1.69E-08	2.47E-08
PA234M	6.95E-07	7.22E-07	7.22E-07	7.22E-07	7.22E-07	7.22E-07	7.22E-07	7.22E-07	7.22E-07	7.22E-07	7.22E-07
PA234	2.60E-09	2.73E-09	2.73E-09	2.73E-09	2.73E-09	2.73E-09	2.73E-09	2.73E-09	2.73E-09	2.73E-09	2.73E-09
U 232	8.59E-15	8.51E-15	8.43E-15	8.19E-15	7.80E-15	7.09E-15	5.31E-15	3.28E-15	1.25E-15	6.98E-17	5.67E-19
U 233	3.07E-14	3.87E-14	4.77E-14	7.92E-14	1.55E-13	4.26E-13	2.51E-12	1.08E-11	4.51E-11	2.60E-10	8.56E-10
U 234	1.95E-06	1.95E-06	1.95E-06	1.96E-06	1.98E-06	2.01E-06	2.08E-06	2.18E-06	2.28E-06	2.36E-06	2.37E-06

U 235	2.92E-07	2.92E-07	2.92E-07	2.92E-07	2.92E-07	2.92E-07	2.92E-07	2.92E-07	2.92E-07	2.93E-07	2.93E-07	2.93E-07
U 236	3.44E-09	3.45E-09	3.46E-09	3.48E-09	3.52E-09	3.59E-09	3.82E-09	4.20E-09	4.94E-09	7.14E-09	1.06E-08	
U 237	3.48E-08	6.59E-08	6.28E-08	5.44E-08	4.27E-08	2.64E-08	6.23E-09	5.62E-10	4.57E-12	2.45E-18	8.68E-29	
U 238	3.70E-06	3.70E-06	3.70E-06	3.70E-06	3.70E-06	3.70E-06	3.70E-06	3.70E-06	3.70E-06	3.70E-06	3.70E-06	3.70E-06
U 240	1.02E-20	2.13E-20	2.13E-20	2.13E-20	2.13E-20	2.13E-20	2.13E-20	2.13E-20	2.13E-20	2.13E-20	2.13E-20	2.13E-20
NP237	1.59E-09	1.78E-09	1.99E-09	2.74E-09	4.33E-09	8.41E-09	2.42E-08	5.26E-08	1.04E-07	2.18E-07	3.20E-07	
NP238	2.07E-15	4.32E-15	4.30E-15	4.24E-15	4.15E-15	3.96E-15	3.45E-15	2.75E-15	1.74E-15	4.44E-16	4.54E-17	
NP239	1.18E-12	2.42E-12	2.42E-12	2.42E-12	2.42E-12	2.41E-12	2.41E-12	2.40E-12	2.37E-12	2.31E-12	2.20E-12	
NP240M	7.21E-20	1.50E-19	1.50E-19	1.50E-19	1.50E-19	1.50E-19	1.50E-19	1.50E-19	1.50E-19	1.50E-19	1.50E-19	1.50E-19
PU238	1.34E-03	1.33E-03	1.32E-03	1.29E-03	1.24E-03	1.15E-03	9.06E-04	6.10E-04	2.77E-04	2.59E-05	5.00E-07	
PU239	1.85E-04	1.85E-04	1.85E-04	1.85E-04	1.85E-04	1.85E-04	1.85E-04	1.84E-04	1.84E-04	1.82E-04	1.80E-04	
PU240	2.95E-04	2.95E-04	2.95E-04	2.95E-04	2.95E-04	2.94E-04	2.93E-04	2.92E-04	2.89E-04	2.80E-04	2.65E-04	
PU241	4.50E-05	4.29E-05	4.09E-05	3.54E-05	2.78E-05	1.72E-05	4.06E-06	3.66E-07	2.97E-09	1.59E-15	5.65E-26	
PU242	9.58E-07	9.58E-07	9.58E-07	9.58E-07	9.58E-07	9.58E-07	9.58E-07	9.58E-07	9.58E-07	9.58E-07	9.57E-07	
PU244	7.53E-19	7.53E-19	7.53E-19	7.53E-19	7.53E-19	7.53E-19	7.53E-19	7.53E-19	7.53E-19	7.53E-19	7.53E-19	7.53E-19
AM241	6.33E-04	7.08E-04	7.79E-04	9.74E-04	1.24E-03	1.60E-03	1.98E-03	1.96E-03	1.68E-03	1.04E-03	4.66E-04	
AM242M	7.15E-14	7.12E-14	7.09E-14	6.99E-14	6.83E-14	6.53E-14	5.69E-14	4.53E-14	2.87E-14	7.32E-15	7.49E-16	
AM242	1.01E-13	2.08E-13	2.08E-13	2.05E-13	2.00E-13	1.91E-13	1.67E-13	1.33E-13	8.41E-14	2.14E-14	2.19E-15	
AM243	3.23E-11	3.23E-11	3.22E-11	3.22E-11	3.22E-11	3.22E-11	3.21E-11	3.20E-11	3.17E-11	3.08E-11	2.94E-11	
CM242	2.59E-09	5.54E-10	1.22E-10	6.49E-12	5.25E-12	5.01E-12	4.37E-12	3.48E-12	2.21E-12	5.62E-13	5.75E-14	
CM243	2.98E-11	2.90E-11	2.83E-11	2.64E-11	2.33E-11	1.83E-11	8.82E-12	2.62E-12	2.30E-13	1.56E-16	8.20E-22	
CM244	5.58E-09	5.37E-09	5.17E-09	4.61E-09	3.81E-09	2.60E-09	8.24E-10	1.22E-10	2.65E-12	2.74E-17	1.34E-25	
TOTAL	2.52E-03	2.58E-03	2.64E-03	2.79E-03	3.00E-03	3.26E-03	3.39E-03	3.06E-03	2.44E-03	1.54E-03	9.26E-04	

NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = FASS 200 L

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	1.80E+08	1.70E+08	1.61E+08	1.36E+08	1.03E+08	5.86E+07	1.09E+07	6.58E+05	2.41E+03	1.17E-04	7.66E-17
SR 89	2.10E+05	1.40E+03	9.31E+00	2.74E-06	3.58E-17	0.0	0.0	0.0	0.0	0.0	0.0
SR 90	1.70E+08	1.66E+08	1.62E+08	1.51E+08	1.34E+08	1.06E+08	5.17E+07	1.57E+07	1.46E+06	1.16E+03	7.87E-03
Y 90	1.70E+08	1.66E+08	1.62E+08	1.51E+08	1.34E+08	1.06E+08	5.18E+07	1.57E+07	1.46E+06	1.16E+03	7.87E-03
ZR 93	2.30E+01	2.30E+01	2.30E+01	2.30E+01	2.30E+01	2.30E+01	2.30E+01	2.30E+01	2.30E+01	2.30E+01	2.30E+01
ZR 95	5.00E+06	9.57E+04	1.83E+03	1.28E-02	3.30E-11	2.18E-28	0.0	0.0	0.0	0.0	0.0
NB 93M	3.50E+04	3.33E+04	3.16E+04	2.71E+04	2.10E+04	1.27E+04	2.76E+03	2.36E+02	2.32E+01	2.19E+01	2.18E+01
NB 94	1.60E+01	1.60E+01	1.60E+01	1.60E+01	1.60E+01	1.60E+01	1.60E+01	1.60E+01	1.59E+01	1.57E+01	1.55E+01
NB 95	5.70E+06	2.16E+05	4.21E+03	2.85E-02	7.32E-11	4.83E-28	0.0	0.0	0.0	0.0	0.0
NB 95M	5.80E-10	7.10E+02	1.36E+01	9.53E-05	2.45E-13	1.61E-30	0.0	0.0	0.0	0.0	0.0
MO 99	5.50E+01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TC 99	5.60E+04	5.60E+04	5.60E+04	5.60E+04	5.60E+04	5.60E+04	5.60E+04	5.60E+04	5.60E+04	5.59E+04	5.58E+04
TC 99M	5.50E+01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	2.60E+03	4.14E+00	6.58E-03	2.65E-11	2.70E-25	0.0	0.0	0.0	0.0	0.0	0.0
RU106	1.10E+08	5.53E+07	2.78E+07	3.54E+06	1.14E+05	1.18E+02	1.30E-07	1.53E-22	0.0	0.0	0.0
RH103M	8.70E-20	3.73E+00	5.94E-03	2.39E-11	2.44E-25	0.0	0.0	0.0	0.0	0.0	0.0
RH106	1.10E+08	5.53E+07	2.78E+07	3.54E+06	1.14E+05	1.18E+02	1.30E-07	1.53E-22	0.0	0.0	0.0
PD107	1.10E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01
AG110	2.60E+06	1.26E+04	4.56E+03	2.19E+02	1.38E+00	5.51E-05	3.50E-18	0.0	0.0	0.0	0.0
AG110M	2.60E+06	9.45E+05	3.43E+05	1.64E+04	1.04E+02	4.14E-03	2.63E-16	0.0	0.0	0.0	0.0
SN126	5.70E+01	5.70E+01	5.70E+01	5.70E+01	5.70E+01	5.70E+01	5.70E+01	5.70E+01	5.69E+01	5.68E+01	5.66E+01
SB125	2.90E+07	2.26E+07	1.76E+07	8.27E+06	2.36E+06	1.91E+05	1.03E+02	3.63E-04	4.54E-15	0.0	0.0
SB126	4.10E+00	7.98E+00	7.98E+00	7.98E+00	7.98E+00	7.98E+00	7.98E+00	7.98E+00	7.97E+00	7.96E+00	7.93E+00
SB126M	2.90E+01	5.70E+01	5.70E+01	5.70E+01	5.70E+01	5.70E+01	5.70E+01	5.70E+01	5.69E+01	5.68E+01	5.66E+01
TE125M	7.30E+06	5.51E+06	4.29E+06	2.02E+06	5.75E+05	4.67E+04	2.50E+01	8.85E-05	1.11E-15	0.0	0.0
I 129	9.40E+01	9.40E+01	9.40E+01	9.40E+01	9.40E+01	9.40E+01	9.40E+01	9.40E+01	9.40E+01	9.40E+01	9.40E+01
I 131	5.50E+01	1.17E-12	2.50E-26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE131M	0.0	7.34E-10	4.24E-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CS134	3.80E+07	2.72E+07	1.94E+07	7.08E+06	1.32E+06	4.58E+04	1.91E+00	9.64E-08	2.44E-22	0.0	0.0
CS135	4.80E+02	4.80E+02	4.80E+02	4.80E+02	4.80E+02	4.80E+02	4.80E+02	4.80E+02	4.80E+02	4.80E+02	4.80E+02
CS137	3.00E+08	2.93E+08	2.87E+08	2.67E+08	2.38E+08	1.89E+08	9.46E+07	2.98E+07	2.96E+06	2.89E+03	2.79E-02
BA137M	2.90E+08	2.77E+08	2.71E+08	2.53E+08	2.25E+08	1.79E+08	8.95E+07	2.82E+07	2.80E+06	2.74E+03	2.64E-02
CE144	1.60E+07	6.57E+06	2.70E+06	1.87E+05	2.17E+03	2.95E-01	7.39E-13	3.42E-32	0.0	0.0	0.0
PR144	1.60E+07	6.57E+06	2.70E+06	1.87E+05	2.17E+03	2.95E-01	7.40E-13	3.42E-32	0.0	0.0	0.0
PR144M	2.00E+05	7.88E+04	3.24E+04	2.24E+03	2.61E+01	3.54E-03	8.87E-15	4.10E-34	0.0	0.0	0.0
ND144	1.10E-08	1.45E-08	1.59E-08	1.69E-08	1.69E-08	1.69E-08	1.69E-08	1.69E-08	1.69E-08	1.69E-08	1.69E-08
PM147	2.10E+06	1.61E+06	1.24E+06	5.61E+05	1.50E+05	1.07E+04	3.86E+00	7.09E-06	2.39E-17	0.0	0.0
SM147	7.10E-05	8.30E-05	9.22E-05	1.09E-04	1.19E-04	1.22E-04	1.23E-04	1.23E-04	1.23E-04	1.23E-04	1.23E-04
SM148	4.40E-24	5.44E-24	6.62E-24	1.11E-23	2.09E-23	4.62E-23	1.47E-22	3.36E-22	7.22E-22	1.88E-21	3.82E-21
EU152	9.30E+05	8.84E+05	8.40E+05	7.21E+05	5.59E+05	3.36E+05	7.28E+04	5.70E+03	3.49E+01	8.02E-06	6.92E-17
EU154	4.90E+05	4.52E+05	4.17E+05	3.28E+05	2.19E+05	9.78E+04	8.72E+03	1.55E+02	4.91E-02	1.56E-12	4.96E-30
EU155	1.30E+05	1.13E+05	9.83E+04	6.47E+04	3.22E+04	7.95E+03	1.20E+02	1.11E-01	9.48E-08	5.90E-26	0.0
GD152	1.20E-08	1.36E-08	1.52E-08	1.93E-08	2.50E-08	3.29E-08	4.21E-08	4.44E-08	4.46E-08	4.46E-08	4.46E-08
TOTAL	1.46E+09	1.26E+09	1.15E+09	9.85E+08	8.40E+08	6.39E+08	2.99E+08	9.02E+07	8.73E+06	6.46E+04	5.66E+04

FISSION PRODUCT

NUCLIDE THERMAL POWER, WATTS
BASIS = FASS 200 L

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	1.64E-07	1.55E-07	1.47E-07	1.24E-07	9.38E-08	5.35E-08	9.94E-09	6.01E-10	2.20E-12	1.07E-19	6.99E-32
SR 89	1.96E-08	1.31E-10	8.69E-13	2.56E-19	3.35E-30	0.0	0.0	0.0	0.0	0.0	0.0
SR 90	5.33E-06	5.21E-06	5.09E-06	4.74E-06	4.21E-06	3.31E-06	1.62E-06	4.94E-07	4.57E-08	3.63E-11	2.47E-16
Y 90	2.55E-05	2.49E-05	2.43E-05	2.26E-05	2.01E-05	1.58E-05	7.75E-06	2.36E-06	2.18E-07	1.73E-10	1.18E-15
ZR 93	7.23E-14	7.23E-14	7.23E-14	7.23E-14	7.23E-14	7.23E-14	7.23E-14	7.22E-14	7.22E-14	7.22E-14	7.22E-14
ZR 95	6.85E-07	1.31E-08	2.51E-10	1.76E-15	4.52E-24	2.98E-41	0.0	0.0	0.0	0.0	0.0
NB 93M	1.68E-10	1.59E-10	1.51E-10	1.30E-10	1.01E-10	6.06E-11	1.32E-11	1.13E-12	1.11E-13	1.05E-13	1.05E-13
NB 94	4.41E-12	4.41E-12	4.41E-12	4.41E-12	4.41E-12	4.41E-12	4.40E-12	4.39E-12	4.38E-12	4.33E-12	4.26E-12
NB 95	7.39E-07	2.80E-08	5.46E-10	3.70E-15	9.49E-24	6.26E-41	0.0	0.0	0.0	0.0	0.0
NB 95M	2.18E-23	2.67E-11	5.10E-13	3.58E-18	9.19E-27	6.06E-44	0.0	0.0	0.0	0.0	0.0
MO 99	4.78E-12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TC 99	7.59E-10	7.59E-10	7.59E-10	7.59E-10	7.59E-10	7.59E-10	7.59E-10	7.59E-10	7.59E-10	7.58E-10	7.57E-10
TC 99M	1.25E-12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	2.36E-10	3.75E-13	5.97E-16	2.41E-24	2.45E-38	0.0	0.0	0.0	0.0	0.0	0.0
RU106	1.76E-07	8.87E-08	4.46E-08	5.67E-09	1.82E-10	1.88E-13	2.08E-22	2.45E-37	0.0	0.0	0.0
RH103M	5.41E-34	2.32E-14	3.69E-17	1.49E-25	1.51E-39	0.0	0.0	0.0	0.0	0.0	0.0
RH106	2.85E-05	1.43E-05	7.21E-06	9.17E-07	2.95E-08	3.05E-11	3.36E-20	3.96E-35	0.0	0.0	0.0
PD107	1.76E-16	1.76E-16	1.76E-16	1.76E-16	1.76E-16	1.76E-16	1.76E-16	1.76E-16	1.76E-16	1.76E-16	1.76E-16
AG110	5.05E-07	2.44E-09	8.86E-10	4.24E-11	2.68E-13	1.07E-17	6.79E-31	0.0	0.0	0.0	0.0
AG110M	1.17E-06	4.26E-07	1.55E-07	7.41E-09	4.68E-11	1.87E-15	1.19E-28	0.0	0.0	0.0	0.0
SN126	1.92E-12	1.92E-12	1.92E-12	1.92E-12	1.92E-12	1.92E-12	1.92E-12	1.92E-12	1.92E-12	1.92E-12	1.91E-12
SB125	2.45E-06	1.91E-06	1.48E-06	6.99E-07	1.99E-07	1.62E-08	8.67E-12	3.07E-17	3.83E-28	0.0	0.0
SB126	2.05E-12	3.99E-12	3.99E-12	3.99E-12	3.99E-12	3.99E-12	3.99E-12	3.98E-12	3.98E-12	3.97E-12	3.96E-12
SB126M	9.98E-12	1.96E-11	1.96E-11	1.96E-11	1.96E-11	1.96E-11	1.96E-11	1.96E-11	1.96E-11	1.96E-11	1.95E-11
TE125M	1.66E-07	1.25E-07	9.74E-08	4.58E-08	1.31E-08	1.06E-09	5.69E-13	2.01E-18	2.52E-29	0.0	0.0
I 129	1.18E-12	1.18E-12	1.18E-12	1.18E-12	1.18E-12	1.18E-12	1.18E-12	1.18E-12	1.18E-12	1.18E-12	1.18E-12
I 131	5.05E-12	1.08E-25	2.29E-39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE131M	0.0	1.91E-23	1.10E-32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CS134	1.05E-05	7.47E-06	5.34E-06	1.95E-06	3.63E-07	1.26E-08	5.27E-13	2.65E-20	6.72E-35	0.0	0.0
CS135	4.33E-12	4.33E-12	4.33E-12	4.33E-12	4.33E-12	4.33E-12	4.33E-12	4.33E-12	4.33E-12	4.33E-12	4.33E-12
CS137	8.97E-06	8.77E-06	8.57E-06	7.99E-06	7.12E-06	5.65E-06	2.83E-06	8.91E-07	8.84E-08	8.65E-11	8.33E-16
BA137M	3.08E-05	2.94E-05	2.88E-05	2.68E-05	2.39E-05	1.90E-05	9.49E-06	2.99E-06	2.97E-07	2.90E-10	2.80E-15
CE144	2.87E-07	1.18E-07	4.84E-08	3.34E-09	3.90E-11	5.29E-15	1.33E-26	6.12E-46	0.0	0.0	0.0
PR144	3.18E-06	1.31E-06	5.36E-07	3.71E-08	4.32E-10	5.87E-14	1.47E-25	6.79E-45	0.0	0.0	0.0
PR144M	1.85E-09	7.29E-10	2.99E-10	2.07E-11	2.41E-13	3.27E-17	8.20E-29	3.79E-48	0.0	0.0	0.0
PM147	2.04E-08	1.56E-08	1.20E-08	5.44E-09	1.45E-09	1.03E-10	3.74E-14	6.87E-20	2.32E-31	0.0	0.0
SM147	2.63E-17	3.07E-17	3.41E-17	4.03E-17	4.40E-17	4.53E-17	4.53E-17	4.53E-17	4.53E-17	4.53E-17	4.53E-17
SM148	1.42E-36	1.76E-36	2.14E-36	3.60E-36	6.75E-36	1.49E-35	4.73E-35	1.08E-34	2.33E-34	6.07E-34	1.23E-33
EU152	1.91E-07	1.81E-07	1.72E-07	1.48E-07	1.15E-07	6.88E-08	1.49E-08	1.17E-09	7.15E-12	1.64E-18	1.42E-29
EU154	1.19E-07	1.09E-07	1.01E-07	7.92E-08	5.29E-08	2.37E-08	2.11E-09	3.75E-11	1.19E-14	3.77E-25	1.20E-42
EU155	2.56E-09	2.22E-09	1.93E-09	1.27E-09	6.32E-10	1.56E-10	2.36E-12	2.18E-15	1.86E-21	1.16E-39	0.0
GD152	4.23E-21	4.80E-21	5.34E-21	6.81E-21	8.82E-21	1.16E-20	1.48E-20	1.57E-20	1.57E-20	1.57E-20	1.57E-20
TOTAL	1.19E-04	9.46E-05	8.21E-05	6.62E-05	5.62E-05	4.40E-05	2.17E-05	6.74E-06	6.50E-07	1.38E-09	7.92E-10

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

		RADIOACTIVITY ,BECQUEREL										
		INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL		5.89E+10	5.61E+10	5.36E+10	4.68E+10	3.77E+10	2.50E+10	9.02E+09	4.01E+09	2.80E+09	1.78E+09	1.10E+09
		THERMAL POWER ,WATTS										
		INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL		2.71E-03	2.74E-03	2.77E-03	2.90E-03	3.07E-03	3.31E-03	3.41E-03	3.07E-03	2.44E-03	1.54E-03	9.26E-04

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = FASS 400 L

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	6.70E+05	6.70E+05	6.70E+05	6.70E+05	6.69E+05	6.69E+05	6.66E+05	6.62E+05	6.54E+05	6.31E+05	5.94E+05
NA 22	1.70E+02	1.30E+02	9.98E+01	4.49E+01	1.19E+01	8.27E-01	2.80E-04	4.61E-10	1.25E-21	0.0	0.0
CL 36	2.00E+03	2.00E+03	2.00E+03	2.00E+03	2.00E+03	2.00E+03	2.00E+03	2.00E+03	2.00E+03	2.00E+03	2.00E+03
CA 41	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	2.99E+03	2.98E+03
CA 45	1.30E+04	2.75E+03	5.82E+02	5.51E+00	2.34E-03	4.20E-10	2.44E-30	0.0	0.0	0.0	0.0
SC 46	2.70E+01	1.32E+00	6.43E-02	7.46E-06	2.06E-12	1.57E-25	0.0	0.0	0.0	0.0	0.0
MN 54	8.20E+06	3.65E+06	1.62E+06	1.43E+05	2.49E+03	7.56E-01	2.12E-11	5.47E-29	0.0	0.0	0.0
FE 55	1.30E+09	9.96E+08	7.63E+08	3.43E+08	9.05E+07	6.30E+06	2.12E+03	3.46E-03	9.18E-15	0.0	0.0
FE 59	1.40E+03	5.05E+00	1.82E-02	8.56E-10	5.23E-22	0.0	0.0	0.0	0.0	0.0	0.0
CO 60	3.40E+08	2.98E+08	2.61E+08	1.76E+08	9.13E+07	2.45E+07	4.74E+05	6.62E+02	1.29E-03	9.47E-21	0.0
NI 59	6.00E+05	6.00E+05	6.00E+05	6.00E+05	6.00E+05	6.00E+05	6.00E+05	6.00E+05	5.99E+05	5.98E+05	5.95E+05
NI 63	6.30E+07	6.26E+07	6.21E+07	6.07E+07	5.85E+07	5.42E+07	4.32E+07	2.97E+07	1.40E+07	1.46E+06	3.37E+04
ZN 65	1.10E+06	3.90E+05	1.38E+05	6.13E+03	3.42E+01	1.06E-03	3.19E-17	0.0	0.0	0.0	0.0
TOTAL	1.71E+09	1.36E+09	1.09E+09	5.81E+08	2.42E+08	8.63E+07	4.50E+07	3.09E+07	1.52E+07	2.69E+06	1.23E+06

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = FASS 400 L

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	5.32E-09	5.31E-09	5.31E-09	5.31E-09	5.31E-09	5.30E-09	5.28E-09	5.25E-09	5.19E-09	5.00E-09	4.71E-09
NA 22	6.50E-11	4.98E-11	3.82E-11	1.72E-11	4.53E-12	3.16E-13	1.07E-16	1.76E-22	4.78E-34	0.0	0.0
CL 36	7.91E-11	7.91E-11	7.91E-11	7.91E-11	7.91E-11	7.91E-11	7.91E-11	7.91E-11	7.90E-11	7.90E-11	7.89E-11
CA 41	2.05E-10	2.05E-10	2.05E-10	2.05E-10	2.05E-10	2.05E-10	2.05E-10	2.05E-10	2.05E-10	2.04E-10	2.04E-10
CA 45	1.61E-10	3.40E-11	7.20E-12	6.82E-14	2.89E-17	5.20E-24	3.02E-44	0.0	0.0	0.0	0.0
SC 46	9.18E-12	4.48E-13	2.18E-14	2.53E-18	7.00E-25	5.33E-38	0.0	0.0	0.0	0.0	0.0
MN 54	1.10E-06	4.91E-07	2.18E-07	1.92E-08	3.35E-10	1.02E-13	2.85E-24	7.36E-42	0.0	0.0	0.0
FE 55	4.83E-05	3.70E-05	2.84E-05	1.28E-05	3.36E-06	2.34E-07	7.88E-11	1.28E-16	3.41E-28	0.0	0.0
FE 59	3.53E-10	1.27E-12	4.59E-15	2.16E-22	1.32E-34	0.0	0.0	0.0	0.0	0.0	0.0
CO 60	1.42E-04	1.24E-04	1.09E-04	7.34E-05	3.81E-05	1.02E-05	1.98E-07	2.76E-10	5.36E-16	3.95E-33	0.0
NI 59	1.03E-07	1.03E-07	1.03E-07	1.03E-07	1.03E-07	1.03E-07	1.03E-07	1.03E-07	1.03E-07	1.03E-07	1.02E-07
NI 63	6.77E-07	6.71E-07	6.66E-07	6.52E-07	6.27E-07	5.82E-07	4.64E-07	3.19E-07	1.50E-07	1.57E-08	3.62E-10
ZN 65	1.04E-07	3.69E-08	1.31E-08	5.81E-10	3.24E-12	1.01E-16	3.02E-30	0.0	0.0	0.0	0.0
TOTAL	1.92E-04	1.63E-04	1.38E-04	8.70E-05	4.22E-05	1.11E-05	7.71E-07	4.28E-07	2.59E-07	1.24E-07	1.08E-07

ACTINIDES

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = FASS 400 L

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	1.80E-01	2.21E-01	2.92E-01	6.76E-01	1.83E+00	5.74E+00	2.56E+01	7.04E+01	1.69E+02	5.02E+02	1.01E+03
TL208	6.40E+08	9.36E-03	1.01E-02	1.10E-02	1.10E-02	1.02E-02	8.08E-03	5.89E-03	4.55E-03	7.23E-03	1.49E-02
TL209	1.80E-09	2.00E-04	3.99E-04	9.97E-04	2.00E-03	4.01E-03	1.07E-02	2.80E-02	1.19E-01	1.40E+00	9.43E+00
PB209	8.30E-08	9.07E-03	1.81E-02	4.53E-02	9.07E-02	1.82E-01	4.85E-01	1.27E+00	5.42E+00	6.38E+01	4.29E+02
PB210	3.60E-03	4.46E-03	5.49E-03	1.03E-02	2.93E-02	1.68E-01	3.19E+00	3.19E+01	2.80E+02	4.05E+03	1.88E+04
PB211	1.80E-01	2.22E-01	2.93E-01	6.78E-01	1.84E+00	5.75E+00	2.57E+01	7.06E+01	1.69E+02	5.03E+02	1.02E+03
PB212	1.60E-02	2.61E-02	2.81E-02	3.06E-02	3.06E-02	2.83E-02	2.25E-02	1.64E-02	1.27E-02	2.01E-02	4.14E-02
PB214	2.90E-02	3.46E-02	4.21E-02	8.04E-02	2.21E-01	9.64E-01	1.01E+01	6.54E+01	4.15E+02	4.05E+03	1.88E+04
BI210	3.60E-03	4.46E-03	5.49E-03	1.03E-02	2.93E-02	1.68E-01	3.19E+00	3.19E+01	2.80E+02	4.05E+03	1.88E+04
BI211	1.80E-01	2.22E-01	2.93E-01	6.78E-01	1.84E+00	5.75E+00	2.57E+01	7.06E+01	1.69E+02	5.03E+02	1.02E+03
BI212	1.60E-02	2.61E-02	2.81E-02	3.06E-02	3.06E-02	2.83E-02	2.25E-02	1.64E-02	1.27E-02	2.01E-02	4.14E-02
BI213	8.30E-08	9.07E-03	1.81E-02	4.53E-02	9.07E-02	1.82E-01	4.85E-01	1.27E+00	5.42E+00	6.38E+01	4.29E+02
BI214	2.90E-02	3.46E-02	4.21E-02	8.04E-02	2.21E-01	9.64E-01	1.01E+01	6.54E+01	4.15E+02	4.05E+03	1.88E+04
PO210	3.60E-03	4.01E-03	4.88E-03	9.16E-03	2.93E-02	1.68E-01	3.19E+00	3.19E+01	2.80E+02	4.05E+03	1.88E+04
PO211	5.30E-04	6.66E-04	8.80E-04	2.03E-03	5.51E-03	1.73E-02	7.71E-02	2.12E-01	5.08E-01	1.51E+00	3.05E+00
PO212	2.90E+07	1.67E-02	1.80E-02	1.96E-02	1.96E-02	1.82E-02	1.48E-02	1.05E-02	8.13E-03	1.29E-02	2.65E-02
PO213	8.10E-08	8.87E-03	1.77E-02	4.43E-02	8.87E-02	1.78E-01	4.75E-01	1.25E+00	5.30E+00	6.24E+01	4.19E+02
PO214	2.90E-02	3.46E-02	4.21E-02	8.04E-02	2.21E-01	9.64E-01	1.01E+01	6.54E+01	4.15E+02	4.05E+03	1.88E+04
PO215	1.80E-01	2.22E-01	2.93E-01	6.78E-01	1.84E+00	5.75E+00	2.57E+01	7.06E+01	1.69E+02	5.03E+02	1.02E+03
PO216	1.60E-02	2.61E-02	2.81E-02	3.06E-02	3.06E-02	2.83E-02	2.25E-02	1.64E-02	1.27E-02	2.01E-02	4.14E-02
PO218	2.90E-02	3.46E-02	4.21E-02	8.04E-02	2.21E-01	9.64E-01	1.01E+01	6.54E+01	4.15E+02	4.05E+03	1.88E+04
AT217	8.30E-08	9.07E-03	1.81E-02	4.53E-02	9.07E-02	1.82E-01	4.85E-01	1.27E+00	5.42E+00	6.38E+01	4.29E+02
RN219	1.80E-01	2.22E-01	2.93E-01	6.78E-01	1.84E+00	5.75E+00	2.57E+01	7.06E+01	1.69E+02	5.03E+02	1.02E+03
RN220	1.60E-02	2.61E-02	2.81E-02	3.06E-02	3.06E-02	2.83E-02	2.25E-02	1.64E-02	1.27E-02	2.01E-02	4.14E-02
RN222	2.90E-02	3.46E-02	4.21E-02	8.04E-02	2.21E-01	9.64E-01	1.01E+01	6.54E+01	4.15E+02	4.05E+03	1.88E+04
FR221	8.30E-08	9.07E-03	1.81E-02	4.53E-02	9.07E-02	1.82E-01	4.85E-01	1.27E+00	5.42E+00	6.38E+01	4.29E+02
FR223	2.50E-03	3.10E-03	4.10E-03	9.48E-03	2.57E-02	8.05E-02	3.60E-01	9.88E-01	2.37E+00	7.05E+00	1.42E+01
RA223	1.80E-01	2.22E-01	2.93E-01	6.78E-01	1.84E+00	5.75E+00	2.57E+01	7.06E+01	1.69E+02	5.03E+02	1.02E+03
RA224	1.60E-02	2.61E-02	2.81E-02	3.06E-02	3.06E-02	2.83E-02	2.25E-02	1.64E-02	1.27E-02	2.01E-02	4.14E-02
RA225	8.30E-08	9.07E-03	1.81E-02	4.53E-02	9.07E-02	1.82E-01	4.85E-01	1.27E+00	5.42E+00	6.38E+01	4.29E+02
RA226	2.90E-02	3.46E-02	4.21E-02	8.04E-02	2.21E-01	9.64E-01	1.01E+01	6.54E+01	4.15E+02	4.05E+03	1.88E+04
RA228	1.70E-07	2.09E-06	7.55E-06	4.19E-05	1.44E-04	4.40E-04	1.54E-03	3.46E-03	7.74E-03	1.99E-02	4.14E-02
AC225	8.30E-08	9.07E-03	1.81E-02	4.53E-02	9.07E-02	1.82E-01	4.85E-01	1.27E+00	5.42E+00	6.38E+01	4.29E+02
AC227	1.80E-01	2.21E-01	2.93E-01	6.77E-01	1.83E+00	5.75E+00	2.57E+01	7.06E+01	1.69E+02	5.03E+02	1.02E+03
AC228	1.70E-07	2.09E-06	7.55E-06	4.19E-05	1.44E-04	4.40E-04	1.54E-03	3.46E-03	7.74E-03	1.99E-02	4.14E-02
TH227	1.70E-01	2.19E-01	2.89E-01	6.68E-01	1.81E+00	5.67E+00	2.54E+01	6.96E+01	1.67E+02	4.96E+02	1.00E+03
TH228	2.30E-02	2.60E-02	2.80E-02	3.06E-02	3.06E-02	2.83E-02	2.25E-02	1.64E-02	1.27E-02	2.01E-02	4.14E-02
TH229	8.30E-08	9.07E-03	1.81E-02	4.53E-02	9.07E-02	1.82E-01	4.85E-01	1.27E+00	5.42E+00	6.38E+01	4.29E+02
TH230	1.10E+01	1.50E+01	2.00E+01	4.05E+01	9.33E+01	2.65E+02	1.25E+03	4.15E+03	1.29E+04	4.78E+04	1.10E+05
TH231	8.50E+03	4.70E+04	4.70E+04	4.70E+04	4.70E+04	4.71E+04	4.72E+04	4.73E+04	4.76E+04	4.84E+04	4.98E+04
TH232	3.80E-07	3.84E-05	7.64E-05	1.90E-04	3.81E-04	7.62E-04	1.91E-03	3.83E-03	7.74E-03	1.99E-02	4.14E-02
TH234	6.60E+04	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05
PA231	1.00E+00	2.00E+00	2.99E+00	5.98E+00	1.10E+01	2.09E+01	5.08E+01	1.01E+02	2.01E+02	5.03E+02	1.01E+03
PA233	1.90E+00	4.94E+02	1.41E+03	6.46E+03	2.15E+04	7.03E+04	2.90E+05	7.06E+05	1.47E+06	3.16E+06	4.66E+06
PA234M	6.60E+04	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05
PA234	8.60E+01	1.07E+03	1.07E+03	1.07E+03	1.07E+03	1.07E+03	1.07E+03	1.07E+03	1.07E+03	1.07E+03	1.07E+03
U 232	3.30E-02	3.27E-02	3.24E-02	3.15E-02	3.00E-02	2.72E-02	2.04E-02	1.26E-02	4.82E-03	2.68E-04	2.18E-06
U 233	9.60E+01	9.60E+01	9.60E+01	9.61E+01	9.64E+01	9.83E+01	1.21E+02	2.30E+02	7.10E+02	3.83E+03	1.26E+04
U 234	3.90E+05	4.97E+05	6.04E+05	9.18E+05	1.43E+06	2.38E+06	4.84E+06	7.84E+06	1.12E+07	1.38E+07	1.40E+07

U 235	4.70E+04	4.70E+04	4.70E+04	4.70E+04	4.70E+04	4.71E+04	4.72E+04	4.73E+04	4.76E+04	4.84E+04	4.98E+04
U 236	7.70E+05	7.70E+05	7.71E+05	7.71E+05	7.72E+05	7.73E+05	7.77E+05	7.84E+05	7.98E+05	8.40E+05	9.05E+05
U 237	4.90E+00	2.03E+07	1.93E+07	1.67E+07	1.32E+07	8.13E+06	1.92E+06	1.73E+05	1.41E+03	7.54E-04	2.67E-14
U 238	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05	8.20E+05
U 240	1.70E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06
NP237	1.90E+00	4.94E+02	1.41E+03	6.46E+03	2.15E+04	7.03E+04	2.90E+05	7.06E+05	1.47E+06	3.16E+06	4.66E+06
NP238	5.60E-02	1.20E-01	1.19E-01	1.17E-01	1.15E-01	1.10E-01	9.56E-02	7.61E-02	4.82E-02	1.23E-02	1.26E-03
NP239	6.60E+01	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.29E+02	1.29E+02	1.28E+02	1.24E+02	1.18E+02
NP240M	1.70E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06
PU238	3.80E+10	3.77E+10	3.74E+10	3.65E+10	3.51E+10	3.25E+10	2.56E+10	1.73E+10	7.83E+09	7.33E+08	1.41E+07
PU239	2.90E+09	2.90E+09	2.90E+09	2.90E+09	2.90E+09	2.90E+09	2.90E+09	2.89E+09	2.88E+09	2.86E+09	2.82E+09
PU240	4.80E+09	4.80E+09	4.80E+09	4.80E+09	4.80E+09	4.79E+09	4.78E+09	4.75E+09	4.70E+09	4.55E+09	4.32E+09
PU241	8.50E+11	8.10E+11	7.72E+11	6.68E+11	5.26E+11	3.25E+11	7.67E+10	6.91E+09	5.61E+07	3.01E+01	1.07E-09
PU242	1.30E+01	1.30E+01	1.30E+01	1.30E+01	1.30E+01	1.30E+01	1.30E+01	1.30E+01	1.30E+01	1.30E+01	1.30E+01
PU244	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06	3.40E-06
AM241	8.30E+08	2.16E+09	3.42E+09	6.86E+09	1.15E+10	1.80E+10	2.52E+10	2.54E+10	2.19E+10	1.35E+10	6.06E+09
AM242M	2.40E+01	2.39E+01	2.38E+01	2.35E+01	2.29E+01	2.19E+01	1.91E+01	1.52E+01	9.65E+00	2.46E+00	2.51E-01
AM242	1.10E+01	2.38E+01	2.37E+01	2.34E+01	2.28E+01	2.18E+01	1.90E+01	1.51E+01	9.60E+00	2.44E+00	2.50E-01
AM243	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.29E+02	1.29E+02	1.28E+02	1.24E+02	1.18E+02
CM242	8.20E+03	1.75E+03	3.88E+02	2.29E+01	1.89E+01	1.80E+01	1.57E+01	1.25E+01	7.94E+00	2.02E+00	2.07E-01
CM243	1.00E+02	9.76E+01	9.53E+01	8.86E+01	7.84E+01	6.15E+01	2.97E+01	8.79E+00	7.73E-01	5.25E-04	2.76E-09
CM244	1.90E+04	1.83E+04	1.76E+04	1.57E+04	1.30E+04	8.84E+03	2.81E+03	4.14E+02	9.02E+00	9.32E-05	4.57E-13
TOTAL	8.98E+11	8.58E+11	8.21E+11	7.20E+11	5.80E+11	3.83E+11	1.35E+11	5.73E+10	3.74E+10	2.17E+10	1.32E+10

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = FASS 400 L

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	1.43E-14	1.76E-14	2.32E-14	5.36E-14	1.45E-13	4.55E-13	2.03E-12	5.59E-12	1.34E-11	3.98E-11	8.03E-11
TL208	4.07E-04	5.96E-15	6.41E-15	6.99E-15	6.99E-15	6.47E-15	5.14E-15	3.75E-15	2.90E-15	4.60E-15	9.45E-15
TL209	8.09E-22	8.96E-17	1.79E-16	4.48E-16	8.96E-16	1.80E-15	4.80E-15	1.26E-14	5.36E-14	6.30E-13	4.23E-12
PB209	2.58E-21	2.82E-16	5.64E-16	1.41E-15	2.82E-15	5.67E-15	1.51E-14	3.96E-14	1.69E-13	1.98E-12	1.33E-11
PB210	2.26E-17	2.79E-17	3.44E-17	6.44E-17	1.84E-16	1.05E-15	2.00E-14	2.00E-13	1.76E-12	2.53E-11	1.18E-10
PB211	1.46E-14	1.80E-14	2.38E-14	5.49E-14	1.49E-13	4.66E-13	2.08E-12	5.72E-12	1.37E-11	4.08E-11	8.22E-11
PB212	8.24E-16	1.34E-15	1.45E-15	1.57E-15	1.58E-15	1.46E-15	1.16E-15	8.45E-16	6.53E-16	1.04E-15	2.13E-15
PB214	2.50E-15	2.98E-15	3.63E-15	6.93E-15	1.90E-14	8.31E-14	8.67E-13	5.64E-12	3.58E-11	3.49E-10	1.62E-09
BI210	2.24E-16	2.78E-16	3.42E-16	6.40E-16	1.83E-15	1.05E-14	1.99E-13	1.99E-12	1.75E-11	2.52E-10	1.17E-09
BI211	1.94E-13	2.39E-13	3.16E-13	7.31E-13	1.98E-12	6.20E-12	2.77E-11	7.61E-11	1.83E-10	5.43E-10	1.09E-09
BI212	7.36E-15	1.20E-14	1.29E-14	1.41E-14	1.41E-14	1.30E-14	1.03E-14	7.54E-15	5.83E-15	9.25E-15	1.90E-14
BI213	9.43E-21	1.03E-15	2.06E-15	5.15E-15	1.03E-14	2.07E-14	5.52E-14	1.45E-13	6.16E-13	7.25E-12	4.87E-11
BI214	1.00E-14	1.20E-14	1.46E-14	2.79E-14	7.65E-14	3.34E-13	3.48E-12	2.27E-11	1.44E-10	1.40E-09	6.53E-09
PO210	3.12E-15	3.48E-15	4.23E-15	7.94E-15	2.54E-14	1.46E-13	2.76E-12	2.76E-11	2.43E-10	3.51E-09	1.63E-08
PO211	6.45E-16	8.10E-16	1.07E-15	2.47E-15	6.70E-15	2.10E-14	9.38E-14	2.58E-13	6.18E-13	1.84E-12	3.70E-12
PO212	3.87E-05	2.40E-14	2.58E-14	2.81E-14	2.82E-14	2.60E-14	2.07E-14	1.51E-14	1.17E-14	1.85E-14	3.80E-14
PO213	1.11E-19	1.21E-14	2.43E-14	6.06E-14	1.21E-13	2.44E-13	6.49E-13	1.70E-12	7.25E-12	8.53E-11	5.73E-10
PO214	3.64E-14	4.34E-14	5.29E-14	1.01E-13	2.77E-13	1.21E-12	1.26E-11	8.21E-11	5.21E-10	5.08E-09	2.37E-08
PO215	2.17E-13	2.68E-13	3.54E-13	8.17E-13	2.21E-12	6.94E-12	3.10E-11	8.51E-11	2.04E-10	6.07E-10	1.22E-09
PO216	1.71E-14	2.79E-14	3.00E-14	3.27E-14	3.28E-14	3.03E-14	2.41E-14	1.76E-14	1.36E-14	2.15E-14	4.43E-14
PO218	2.84E-14	3.39E-14	4.12E-14	7.88E-14	2.16E-13	9.44E-13	9.85E-12	6.41E-11	4.06E-10	3.96E-09	1.85E-08
AT217	9.58E-20	1.05E-14	2.09E-14	5.23E-14	1.05E-13	2.10E-13	5.60E-13	1.47E-12	6.25E-12	7.36E-11	4.94E-10
RN219	2.00E-13	2.47E-13	3.26E-13	7.54E-13	2.04E-12	6.40E-12	2.86E-11	7.86E-11	1.88E-10	5.60E-10	1.13E-09
RN220	1.64E-14	2.68E-14	2.88E-14	3.14E-14	3.14E-14	2.91E-14	2.31E-14	1.68E-14	1.30E-14	2.07E-14	4.25E-14
RN222	2.60E-14	3.10E-14	3.77E-14	7.20E-14	1.98E-13	8.64E-13	9.01E-12	5.86E-11	3.72E-10	3.62E-09	1.69E-08
FR221	8.59E-20	9.38E-15	1.88E-14	4.69E-14	9.39E-14	1.89E-13	5.02E-12	1.32E-12	5.61E-12	6.60E-11	4.43E-10
FR223	1.76E-16	2.18E-16	2.88E-16	6.65E-16	1.80E-15	5.65E-15	2.53E-14	6.94E-14	1.66E-13	4.95E-13	9.97E-13
RA223	1.72E-13	2.13E-13	2.81E-13	6.49E-13	1.76E-12	5.51E-12	2.46E-11	6.76E-11	1.62E-10	4.82E-10	9.72E-10
RA224	1.48E-14	2.42E-14	2.60E-14	2.84E-14	2.84E-14	2.63E-14	2.09E-14	1.52E-14	1.18E-14	1.87E-14	3.84E-14
RA225	1.57E-21	1.72E-16	3.44E-16	8.59E-16	1.72E-15	3.46E-15	9.20E-15	2.42E-14	1.03E-13	1.21E-12	8.12E-12
RA226	2.26E-14	2.70E-14	3.29E-14	6.28E-14	1.72E-13	7.53E-13	7.85E-12	5.11E-11	3.24E-10	3.16E-09	1.47E-08
RA228	3.54E-22	4.35E-21	1.57E-20	8.73E-20	2.99E-19	9.16E-19	3.21E-18	7.21E-18	1.61E-17	4.14E-17	8.62E-17
AC225	7.90E-20	8.62E-15	1.72E-14	4.31E-14	8.63E-14	1.73E-13	4.62E-13	1.21E-12	5.15E-12	6.07E-11	4.07E-10
AC227	2.36E-15	2.90E-15	3.83E-15	8.86E-15	2.40E-14	7.53E-14	3.36E-13	9.24E-13	2.22E-12	6.59E-12	1.33E-11
AC228	3.97E-20	4.88E-19	1.76E-18	9.79E-18	3.35E-17	1.03E-16	3.60E-16	8.08E-16	1.81E-15	4.64E-15	9.66E-15
TH227	1.67E-13	2.15E-13	2.85E-13	6.58E-13	1.78E-12	5.59E-12	2.50E-11	6.86E-11	1.64E-10	4.89E-10	9.86E-10
TH228	2.03E-14	2.30E-14	2.47E-14	2.70E-14	2.71E-14	2.50E-14	1.99E-14	1.45E-14	1.12E-14	1.78E-14	3.66E-14
TH229	6.88E-20	7.51E-15	1.50E-14	3.75E-14	7.51E-14	1.51E-13	4.02E-13	1.06E-12	4.49E-12	5.28E-11	3.55E-10
TH230	8.41E-12	1.15E-11	1.53E-11	3.10E-11	7.13E-11	2.03E-10	9.58E-10	3.17E-09	9.87E-09	3.65E-08	8.42E-08
TH231	1.29E-10	7.13E-10	7.13E-10	7.14E-10	7.14E-10	7.14E-10	7.16E-10	7.18E-10	7.22E-10	7.35E-10	7.56E-10
TH232	2.49E-19	2.51E-17	4.99E-17	1.25E-16	2.49E-16	4.98E-16	1.25E-15	2.51E-15	5.06E-15	1.30E-14	2.71E-14
TH234	7.24E-10	8.99E-09	8.99E-09	8.99E-09	8.99E-09	8.99E-09	8.99E-09	8.99E-09	8.99E-09	8.99E-09	8.99E-09
PA231	8.25E-13	1.65E-12	2.47E-12	4.93E-12	9.04E-12	1.72E-11	4.19E-11	8.30E-11	1.66E-10	4.15E-10	8.37E-10
PA233	1.17E-13	3.03E-11	8.63E-11	3.96E-10	1.32E-09	4.31E-09	1.78E-08	4.33E-08	9.03E-08	1.94E-07	2.86E-07
PA234M	8.82E-09	1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07
PA234	3.34E-11	4.14E-10	4.14E-10	4.14E-10	4.14E-10	4.14E-10	4.14E-10	4.14E-10	4.14E-10	4.14E-10	4.14E-10
U 232	2.86E-14	2.84E-14	2.81E-14	2.73E-14	2.60E-14	2.36E-14	1.77E-14	1.09E-14	4.18E-15	2.33E-16	1.89E-18
U 233	7.55E-11	7.55E-11	7.55E-11	7.56E-11	7.58E-11	7.73E-11	9.52E-11	1.81E-10	5.58E-10	3.01E-09	9.90E-09
U 234	3.04E-07	3.87E-07	4.70E-07	7.14E-07	1.11E-06	1.85E-06	3.77E-06	6.10E-06	8.73E-06	1.07E-05	1.09E-05

U 235	3.52E-08	3.52E-08	3.53E-08	3.53E-08	3.53E-08	3.53E-08	3.54E-08	3.55E-08	3.57E-08	3.63E-08	3.74E-08
U 236	5.64E-07	5.64E-07	5.64E-07	5.65E-07	5.65E-07	5.66E-07	5.69E-07	5.74E-07	5.85E-07	6.15E-07	6.63E-07
U 237	2.51E-13	1.04E-06	9.89E-07	8.56E-07	6.73E-07	4.16E-07	9.81E-08	8.85E-09	7.19E-11	3.86E-17	1.37E-27
U 238	5.61E-07	5.61E-07	5.61E-07	5.61E-07	5.61E-07	5.61E-07	5.61E-07	5.61E-07	5.61E-07	5.61E-07	5.61E-07
U 240	3.77E-20	7.53E-20	7.53E-20	7.53E-20	7.53E-20	7.53E-20	7.53E-20	7.53E-20	7.53E-20	7.53E-20	7.53E-20
NP237	1.51E-12	3.93E-10	1.12E-09	5.13E-09	1.71E-08	5.58E-08	2.30E-07	5.61E-07	1.17E-06	2.51E-06	3.70E-06
NP238	7.25E-15	1.55E-14	1.54E-14	1.52E-14	1.48E-14	1.42E-14	1.24E-14	9.85E-15	6.24E-15	1.59E-15	1.63E-16
NP239	4.31E-12	8.50E-12	8.50E-12	8.49E-12	8.49E-12	8.48E-12	8.46E-12	8.42E-12	8.34E-12	8.11E-12	7.74E-12
NP240M	2.66E-19	5.32E-19	5.32E-19	5.32E-19	5.32E-19	5.32E-19	5.32E-19	5.32E-19	5.32E-19	5.32E-19	5.32E-19
PU238	3.41E-02	3.38E-02	3.35E-02	3.27E-02	3.15E-02	2.91E-02	2.30E-02	1.55E-02	7.02E-03	6.57E-04	1.27E-05
PU239	2.44E-03	2.44E-03	2.44E-03	2.44E-03	2.44E-03	2.44E-03	2.43E-03	2.43E-03	2.42E-03	2.40E-03	2.37E-03
PU240	4.04E-03	4.04E-03	4.04E-03	4.04E-03	4.04E-03	4.03E-03	4.02E-03	4.00E-03	3.96E-03	3.83E-03	3.64E-03
PU241	7.08E-04	6.75E-04	6.43E-04	5.57E-04	4.38E-04	2.71E-04	6.39E-05	5.76E-06	4.68E-08	2.51E-14	8.89E-25
PU242	1.04E-11	1.04E-11	1.04E-11	1.04E-11	1.04E-11	1.04E-11	1.04E-11	1.04E-11	1.04E-11	1.04E-11	1.04E-11
PU244	2.67E-18	2.67E-18	2.67E-18	2.67E-18	2.67E-18	2.67E-18	2.67E-18	2.67E-18	2.67E-18	2.67E-18	2.67E-18
AM241	7.50E-04	1.95E-03	3.09E-03	6.19E-03	1.04E-02	1.63E-02	2.27E-02	2.30E-02	1.98E-02	1.22E-02	5.48E-03
AM242M	2.56E-13	2.55E-13	2.54E-13	2.50E-13	2.45E-13	2.34E-13	2.04E-13	1.62E-13	1.03E-13	2.62E-14	2.68E-15
AM242	3.46E-13	7.47E-13	7.43E-13	7.33E-13	7.17E-13	6.85E-13	5.97E-13	4.76E-13	3.01E-13	7.68E-14	7.86E-15
AM243	1.13E-10	1.13E-10	1.13E-10	1.13E-10	1.13E-10	1.13E-10	1.13E-10	1.12E-10	1.11E-10	1.08E-10	1.03E-10
CM242	8.17E-09	1.75E-09	3.86E-10	2.28E-11	1.88E-11	1.80E-11	1.57E-11	1.25E-11	7.91E-12	2.01E-12	2.06E-13
CM243	9.92E-11	9.68E-11	9.45E-11	8.78E-11	7.78E-11	6.10E-11	2.94E-11	8.72E-12	7.67E-13	5.21E-16	2.73E-21
CM244	1.80E-08	1.73E-08	1.66E-08	1.48E-08	1.23E-08	8.36E-09	2.65E-09	3.92E-10	8.53E-12	8.82E-17	4.33E-25
TOTAL	4.25E-02	4.29E-02	4.37E-02	4.60E-02	4.88E-02	5.21E-02	5.22E-02	4.49E-02	3.32E-02	1.91E-02	1.15E-02

FISSION PRODUCT

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = FASS 400 L

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	5.50E+07	5.20E+07	4.92E+07	4.16E+07	3.14E+07	1.79E+07	3.33E+06	2.01E+05	7.35E+02	3.59E-05	2.34E-17
SR 90	2.60E+08	2.54E+08	2.48E+08	2.31E+08	2.05E+08	1.62E+08	7.91E+07	2.41E+07	2.23E+06	1.77E+03	1.20E-02
Y 90	2.60E+08	2.54E+08	2.48E+08	2.31E+08	2.05E+08	1.62E+08	7.92E+07	2.41E+07	2.23E+06	1.77E+03	1.20E-02
ZR 93	7.40E+03	7.40E+03	7.40E+03	7.40E+03	7.40E+03	7.40E+03	7.40E+03	7.40E+03	7.40E+03	7.40E+03	7.40E+03
NB 93M	1.20E+05	1.14E+05	1.09E+05	9.46E+04	7.49E+04	4.78E+04	1.59E+04	7.73E+03	7.04E+03	7.03E+03	7.03E+03
NB 94	4.40E+01	4.40E+01	4.40E+01	4.40E+01	4.40E+01	4.40E+01	4.39E+01	4.39E+01	4.37E+01	4.33E+01	4.25E+01
TC 99	9.90E+04	9.90E+04	9.90E+04	9.90E+04	9.90E+04	9.90E+04	9.90E+04	9.90E+04	9.90E+04	9.89E+04	9.87E+04
RU106	2.10E+07	1.06E+07	5.31E+06	6.75E+05	2.17E+04	2.24E+01	2.48E-08	2.92E-23	0.0	0.0	0.0
RH106	2.10E+07	1.06E+07	5.31E+06	6.75E+05	2.17E+04	2.24E+01	2.48E-08	2.92E-23	0.0	0.0	0.0
PD107	3.60E-01	3.60E-01	3.60E-01	3.60E-01	3.60E-01	3.60E-01	3.60E-01	3.60E-01	3.60E-01	3.60E-01	3.60E-01
AG110	2.60E+01	3.87E+04	1.40E+04	6.72E+02	4.25E+00	1.69E-04	1.08E-17	0.0	0.0	0.0	0.0
AG110M	8.00E+06	2.91E+06	1.06E+06	5.06E+04	3.19E+02	1.27E-02	8.09E-16	0.0	0.0	0.0	0.0
SN126	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.69E+03	2.68E+03
SB125	1.30E+07	1.01E+07	7.87E+06	3.71E+06	1.06E+06	8.58E+04	4.60E+01	1.63E-04	2.03E-15	0.0	0.0
SB126	1.30E+01	3.78E+02	3.78E+02	3.78E+02	3.78E+02	3.78E+02	3.78E+02	3.78E+02	3.78E+02	3.77E+02	3.76E+02
SB126M	9.50E+01	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.69E+03	2.68E+03
TE125M	8.30E+06	2.53E+06	1.92E+06	9.05E+05	2.58E+05	2.09E+04	1.12E+01	3.97E-05	4.96E-16	0.0	0.0
I 129	3.10E+02	3.10E+02	3.10E+02	3.10E+02	3.10E+02	3.10E+02	3.10E+02	3.10E+02	3.10E+02	3.10E+02	3.10E+02
CS134	1.60E+08	1.14E+08	8.17E+07	2.98E+07	5.56E+06	1.93E+05	8.06E+00	4.06E-07	1.03E-21	0.0	0.0
CS135	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03	2.70E+03
CS137	7.10E+08	6.94E+08	6.78E+08	6.33E+08	5.64E+08	4.48E+08	2.24E+08	7.05E+07	7.00E+06	6.84E+03	6.59E-02
BA137M	6.70E+08	6.57E+08	6.42E+08	5.99E+08	5.33E+08	4.23E+08	2.12E+08	6.67E+07	6.62E+06	6.47E+03	6.24E-02
CE144	1.50E+07	6.16E+06	2.53E+06	1.75E+05	2.04E+03	2.77E-01	6.93E-13	3.20E-32	0.0	0.0	0.0
PR144	1.50E+07	6.16E+06	2.53E+06	1.75E+05	2.04E+03	2.77E-01	6.93E-13	3.20E-32	0.0	0.0	0.0
PR144M	1.80E+05	7.39E+04	3.03E+04	2.10E+03	2.45E+01	3.32E-03	8.32E-15	3.84E-34	0.0	0.0	0.0
ND144	2.70E-09	5.98E-09	7.33E-09	8.20E-09	8.27E-09	8.27E-09	8.27E-09	8.27E-09	8.27E-09	8.27E-09	8.27E-09
PM147	6.10E+07	4.69E+07	3.60E+07	1.63E+07	4.35E+06	3.10E+05	1.12E+02	2.06E-04	6.95E-16	0.0	0.0
SM147	2.50E-05	3.72E-04	6.39E-04	1.12E-03	1.41E-03	1.51E-03	1.52E-03	1.52E-03	1.52E-03	1.52E-03	1.52E-03
SM148	9.80E-24	1.21E-23	1.46E-23	2.46E-23	4.59E-23	1.02E-22	3.26E-22	7.49E-22	1.61E-21	4.20E-21	8.52E-21
EU152	2.10E+06	2.00E+06	1.90E+06	1.63E+06	1.26E+06	7.58E+05	1.64E+05	1.29E+04	7.88E+01	1.81E-05	1.56E-16
EU154	2.60E+07	2.40E+07	2.21E+07	1.74E+07	1.16E+07	5.19E+06	4.63E+05	8.24E+03	2.61E+00	8.28E-11	2.63E-28
EU155	2.60E+06	2.26E+06	1.97E+06	1.29E+06	6.43E+05	1.59E+05	2.40E+03	2.22E+00	1.90E-06	1.18E-24	0.0
GD152	2.60E-08	2.97E-08	3.32E-08	4.26E-08	5.54E-08	7.31E-08	9.40E-08	9.93E-08	9.97E-08	9.97E-08	9.97E-08
TOTAL	2.31E+09	2.15E+09	2.04E+09	1.81E+09	1.56E+09	1.22E+09	5.98E+08	1.86E+08	1.82E+07	1.39E+05	1.22E+05

NUCLIDE THERMAL POWER, WATTS
BASIS = FASS 400 L

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	5.02E-08	4.75E-08	4.49E-08	3.80E-08	2.87E-08	1.64E-08	3.04E-09	1.84E-10	6.71E-13	3.28E-20	2.14E-32
SR 90	8.16E-06	7.97E-06	7.78E-06	7.24E-06	6.43E-06	5.07E-06	2.48E-06	7.55E-07	6.99E-08	5.55E-11	3.78E-16
Y 90	3.90E-05	3.81E-05	3.72E-05	3.46E-05	3.07E-05	2.42E-05	1.19E-05	3.61E-06	3.34E-07	2.65E-10	1.80E-15
ZR 93	2.32E-11	2.32E-11	2.32E-11	2.32E-11	2.32E-11	2.32E-11	2.32E-11	2.32E-11	2.32E-11	2.32E-11	2.32E-11
NB 93M	5.75E-10	5.48E-10	5.23E-10	4.53E-10	3.59E-10	2.29E-10	7.61E-11	3.70E-11	3.37E-11	3.37E-11	3.37E-11
NB 94	1.21E-11	1.21E-11	1.21E-11	1.21E-11	1.21E-11	1.21E-11	1.21E-11	1.21E-11	1.20E-11	1.19E-11	1.17E-11
TC 99	1.34E-09	1.34E-09	1.34E-09	1.34E-09	1.34E-09	1.34E-09	1.34E-09	1.34E-09	1.34E-09	1.34E-09	1.34E-09
RU106	3.37E-08	1.69E-08	8.51E-09	1.08E-09	3.48E-11	3.59E-14	3.97E-23	4.68E-38	0.0	0.0	0.0
RH106	5.45E-06	2.74E-06	1.38E-06	1.75E-07	5.63E-09	5.82E-12	6.42E-21	7.57E-36	0.0	0.0	0.0
PD107	5.77E-16	5.77E-16	5.77E-16	5.77E-16	5.77E-16	5.77E-16	5.77E-16	5.77E-16	5.77E-16	5.77E-16	5.77E-16
AG110	5.05E-12	7.51E-09	2.73E-09	1.31E-10	8.25E-13	3.29E-17	2.09E-30	0.0	0.0	0.0	0.0
AG110M	3.61E-06	1.31E-06	4.76E-07	2.28E-08	1.44E-10	5.75E-15	3.65E-28	0.0	0.0	0.0	0.0
SN126	9.10E-11	9.10E-11	9.10E-11	9.10E-11	9.10E-11	9.10E-11	9.10E-11	9.10E-11	9.09E-11	9.07E-11	9.04E-11
SB125	1.10E-06	8.55E-07	6.65E-07	3.13E-07	8.93E-08	7.25E-09	3.89E-12	1.37E-17	1.72E-28	0.0	0.0
SB126	6.49E-12	1.89E-10	1.89E-10	1.89E-10	1.89E-10	1.89E-10	1.89E-10	1.89E-10	1.89E-10	1.88E-10	1.88E-10
SB126M	3.27E-11	9.30E-10	9.30E-10	9.29E-10	9.29E-10	9.29E-10	9.29E-10	9.29E-10	9.28E-10	9.26E-10	9.23E-10
TE125M	1.89E-07	5.76E-08	4.37E-08	2.05E-08	5.86E-09	4.76E-10	2.55E-13	9.02E-19	1.13E-29	0.0	0.0
I 129	3.88E-12	3.88E-12	3.88E-12	3.88E-12	3.88E-12	3.88E-12	3.88E-12	3.88E-12	3.88E-12	3.88E-12	3.88E-12
CS134	4.40E-05	3.15E-05	2.25E-05	8.20E-06	1.53E-06	5.30E-08	2.22E-12	1.12E-19	2.83E-34	0.0	0.0
CS135	2.44E-11	2.44E-11	2.44E-11	2.44E-11	2.44E-11	2.44E-11	2.44E-11	2.44E-11	2.44E-11	2.44E-11	2.44E-11
CS137	2.12E-05	2.07E-05	2.03E-05	1.89E-05	1.69E-05	1.34E-05	6.69E-06	2.11E-06	2.09E-07	2.05E-10	1.97E-15
BA137M	7.11E-05	6.97E-05	6.81E-05	6.35E-05	5.66E-05	4.49E-05	2.25E-05	7.08E-06	7.03E-07	6.87E-10	6.62E-15
CE144	2.69E-07	1.10E-07	4.53E-08	3.14E-09	3.65E-11	4.96E-15	1.24E-26	5.74E-46	0.0	0.0	0.0
PR144	2.98E-06	1.22E-06	5.02E-07	3.47E-08	4.05E-10	5.50E-14	1.38E-25	6.36E-45	0.0	0.0	0.0
PR144M	1.66E-09	6.83E-10	2.80E-10	1.94E-11	2.26E-13	3.07E-17	7.69E-29	3.55E-48	0.0	0.0	0.0
PM147	5.91E-07	4.54E-07	3.49E-07	1.58E-07	4.21E-08	3.00E-09	1.09E-12	2.00E-18	6.73E-30	0.0	0.0
SM147	9.26E-18	1.38E-16	2.36E-16	4.15E-16	5.23E-16	5.60E-16	5.63E-16	5.63E-16	5.63E-16	5.63E-16	5.63E-16
SM148	3.16E-36	3.89E-36	4.72E-36	7.93E-36	1.48E-35	3.30E-35	1.05E-34	2.42E-34	5.20E-34	1.36E-33	2.75E-33
EU152	4.30E-07	4.09E-07	3.89E-07	3.34E-07	2.59E-07	1.55E-07	3.37E-08	2.64E-09	1.62E-11	3.71E-18	3.20E-29
EU154	6.29E-06	5.80E-06	5.35E-06	4.20E-06	2.81E-06	1.25E-06	1.12E-07	1.99E-09	6.30E-13	2.00E-23	6.37E-41
EU155	5.11E-08	4.45E-08	3.87E-08	2.54E-08	1.26E-08	3.13E-09	4.72E-11	4.36E-14	3.73E-20	2.32E-38	0.0
GD152	9.16E-21	1.04E-20	1.17E-20	1.50E-20	1.95E-20	2.57E-20	3.31E-20	3.50E-20	3.51E-20	3.51E-20	3.51E-20
TOTAL	2.05E-04	1.81E-04	1.65E-04	1.38E-04	1.15E-04	8.91E-05	4.36E-05	1.36E-05	1.32E-06	3.85E-09	2.64E-09

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	9.02E+11	8.62E+11	8.24E+11	7.22E+11	5.82E+11	3.84E+11	1.36E+11	5.75E+10	3.74E+10	2.17E+10	1.32E+10
	THERMAL POWER, WATTS										
TOTAL	4.28E-02	4.32E-02	4.41E-02	4.62E-02	4.90E-02	5.22E-02	5.23E-02	4.49E-02	3.32E-02	1.91E-02	1.15E-02

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = VBA - 200 L NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	4.10E+03	4.10E+03	4.10E+03	4.10E+03	4.10E+03	4.09E+03	4.08E+03	4.05E+03	4.00E+03	3.86E+03	3.63E+03
NA 22	1.10E+07	8.43E+06	6.46E+06	2.91E+06	7.67E+05	5.35E+04	1.81E+01	2.98E-05	8.09E-17	0.0	0.0
MN 54	2.80E+09	1.25E+09	5.54E+08	4.88E+07	8.51E+05	2.58E+02	7.23E-09	1.87E-26	0.0	0.0	0.0
FE 55	1.60E+06	1.23E+06	9.39E+05	4.22E+05	1.11E+05	7.75E+03	2.61E+00	4.25E-06	1.13E-17	0.0	0.0
CO 58	1.80E+06	5.04E+04	1.41E+03	3.09E-02	5.30E-10	1.56E-25	0.0	0.0	0.0	0.0	0.0
CO 60	2.20E+09	1.93E+09	1.69E+09	1.14E+09	5.91E+08	1.59E+08	3.07E+06	4.28E+03	8.33E-03	6.13E-20	0.0
NI 63	1.50E+06	1.49E+06	1.48E+06	1.45E+06	1.39E+06	1.29E+06	1.03E+06	7.07E+05	3.33E+05	3.47E+04	8.03E+02
TA182	1.00E+08	1.11E+07	1.23E+06	1.66E+03	2.76E-02	7.63E-12	0.0	0.0	0.0	0.0	0.0
TOTAL	5.12E+09	3.20E+09	2.26E+09	1.19E+09	5.94E+08	1.60E+08	4.10E+06	7.15E+05	3.37E+05	3.86E+04	4.44E+03

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = VBA - 200 L NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	3.25E-11	3.25E-11	3.25E-11	3.25E-11	3.25E-11	3.24E-11	3.23E-11	3.21E-11	3.18E-11	3.06E-11	2.88E-11
NA 22	4.21E-06	3.22E-06	2.47E-06	1.11E-06	2.93E-07	2.05E-08	6.93E-12	1.14E-17	3.09E-29	0.0	0.0
MN 54	3.77E-04	1.68E-04	7.46E-05	6.57E-06	1.14E-07	3.48E-11	9.73E-22	2.51E-39	0.0	0.0	0.0
FE 55	5.95E-08	4.56E-08	3.49E-08	1.57E-08	4.14E-09	2.88E-10	9.70E-14	1.58E-19	4.20E-31	0.0	0.0
CO 58	2.91E-07	8.15E-09	2.28E-10	5.00E-15	8.57E-23	2.52E-38	0.0	0.0	0.0	0.0	0.0
CO 60	9.17E-04	8.04E-04	7.05E-04	4.75E-04	2.46E-04	6.61E-05	1.28E-06	1.78E-09	3.47E-15	2.55E-32	0.0
NI 63	1.61E-08	1.60E-08	1.59E-08	1.55E-08	1.49E-08	1.39E-08	1.11E-08	7.58E-09	3.57E-09	3.73E-10	8.62E-12
TA182	2.41E-05	2.66E-06	2.95E-07	4.00E-10	6.65E-15	1.84E-24	0.0	0.0	0.0	0.0	0.0
TOTAL	1.32E-03	9.78E-04	7.82E-04	4.83E-04	2.47E-04	6.61E-05	1.29E-06	9.40E-09	3.60E-09	4.03E-10	3.74E-11

NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = VBA - 200 L NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	2.80E+01	3.38E+01	4.07E+01	6.86E+01	1.36E+02	3.35E+02	1.26E+03	3.28E+03	7.65E+03	2.22E+04	4.41E+04
TL208	2.40E+07	8.30E+07	5.78E+07	1.97E+07	3.40E+06	3.08E+05	2.23E+05	2.23E+05	2.23E+05	2.23E+05	2.23E+05
TL209	1.00E-03	1.29E-03	1.67E-03	3.31E-03	7.64E-03	2.22E-02	1.14E-01	4.30E-01	1.71E+00	1.14E+01	4.93E+01
PB209	4.50E-02	5.85E-02	7.59E-02	1.51E-01	3.47E-01	1.01E+00	5.16E+00	1.95E+01	7.78E+01	5.16E+02	2.24E+03
PB210	2.50E+05	2.68E+05	2.84E+05	3.32E+05	4.02E+05	5.12E+05	6.91E+05	7.71E+05	7.62E+05	6.64E+05	5.45E+05
PB211	2.80E+01	3.39E+01	4.09E+01	6.88E+01	1.36E+02	3.36E+02	1.27E+03	3.29E+03	7.67E+03	2.23E+04	4.42E+04
PB212	6.40E+07	2.31E+08	1.61E+08	5.48E+07	9.47E+06	8.57E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
PB214	8.20E+05	8.20E+05	8.20E+05	8.19E+05	8.17E+05	8.13E+05	8.03E+05	7.86E+05	7.53E+05	6.64E+05	5.45E+05
BI210	2.00E+05	2.68E+05	2.85E+05	3.32E+05	4.02E+05	5.12E+05	6.91E+05	7.71E+05	7.62E+05	6.64E+05	5.45E+05
BI211	2.80E+01	3.39E+01	4.09E+01	6.88E+01	1.36E+02	3.36E+02	1.27E+03	3.29E+03	7.67E+03	2.23E+04	4.42E+04
BI212	6.40E+07	2.31E+08	1.61E+08	5.48E+07	9.47E+06	8.57E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
BI213	4.50E-02	5.85E-02	7.59E-02	1.51E-01	3.47E-01	1.01E+00	5.16E+00	1.95E+01	7.78E+01	5.16E+02	2.24E+03
BI214	8.20E+05	8.20E+05	8.20E+05	8.19E+05	8.17E+05	8.13E+05	8.03E+05	7.86E+05	7.53E+05	6.64E+05	5.45E+05
PO210	2.40E+05	2.55E+05	2.72E+05	3.22E+05	4.02E+05	5.12E+05	6.91E+05	7.71E+05	7.62E+05	6.64E+05	5.45E+05
PO211	8.50E-02	1.02E-01	1.23E-01	2.06E-01	4.09E-01	1.01E+00	3.80E+00	9.86E+00	2.30E+01	6.69E+01	1.33E+02
PO212	7.30E+06	1.48E+08	1.03E+08	3.51E+07	6.07E+06	5.49E+05	3.98E+05	3.98E+05	3.98E+05	3.98E+05	3.98E+05
PO213	4.40E-02	5.72E-02	7.43E-02	1.47E-01	3.40E-01	9.86E-01	5.05E+00	1.91E+01	7.61E+01	5.05E+02	2.19E+03
PO214	5.20E+05	8.20E+05	8.20E+05	8.19E+05	8.17E+05	8.13E+05	8.03E+05	7.86E+05	7.53E+05	6.64E+05	5.45E+05
PO215	2.80E+01	3.39E+01	4.09E+01	6.88E+01	1.36E+02	3.36E+02	1.27E+03	3.29E+03	7.67E+03	2.23E+04	4.42E+04
PO216	1.10E+07	2.31E+08	1.61E+08	5.48E+07	9.47E+06	8.57E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
PO218	5.20E+05	8.20E+05	8.20E+05	8.19E+05	8.17E+05	8.13E+05	8.03E+05	7.86E+05	7.53E+05	6.64E+05	5.45E+05
AT217	4.50E-02	5.85E-02	7.59E-02	1.51E-01	3.47E-01	1.01E+00	5.16E+00	1.95E+01	7.78E+01	5.16E+02	2.24E+03
RN219	2.80E+01	3.39E+01	4.09E+01	6.88E+01	1.36E+02	3.36E+02	1.27E+03	3.29E+03	7.67E+03	2.23E+04	4.42E+04
RN220	1.10E+07	2.31E+08	1.61E+08	5.48E+07	9.47E+06	8.57E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
RN222	8.20E+05	8.20E+05	8.20E+05	8.19E+05	8.17E+05	8.13E+05	8.03E+05	7.86E+05	7.53E+05	6.64E+05	5.45E+05
FR221	4.50E-02	5.85E-02	7.59E-02	1.51E-01	3.47E-01	1.01E+00	5.16E+00	1.95E+01	7.78E+01	5.16E+02	2.24E+03
FR223	4.00E-01	4.73E-01	5.71E-01	9.62E-01	1.91E+00	4.70E+00	1.77E+01	4.60E+01	1.07E+02	3.12E+02	6.19E+02
RA223	2.80E+01	3.39E+01	4.09E+01	6.88E+01	1.36E+02	3.36E+02	1.27E+03	3.29E+03	7.67E+03	2.23E+04	4.42E+04
RA224	1.10E+07	2.31E+08	1.61E+08	5.48E+07	9.47E+06	8.57E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
RA225	4.50E-02	5.85E-02	7.59E-02	1.51E-01	3.47E-01	1.01E+00	5.16E+00	1.95E+01	7.78E+01	5.16E+02	2.24E+03
RA226	8.20E+05	8.20E+05	8.20E+05	8.19E+05	8.17E+05	8.13E+05	8.03E+05	7.86E+05	7.53E+05	6.64E+05	5.45E+05
RA228	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
AC225	4.50E-02	5.85E-02	7.59E-02	1.51E-01	3.47E-01	1.01E+00	5.16E+00	1.95E+01	7.78E+01	5.16E+02	2.24E+03
AC227	2.80E+01	3.38E+01	4.08E+01	6.87E+01	1.36E+02	3.36E+02	1.27E+03	3.29E+03	7.67E+03	2.23E+04	4.42E+04
AC228	4.00E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
TH227	2.80E+01	3.34E+01	4.03E+01	6.78E+01	1.34E+02	3.31E+02	1.25E+03	3.24E+03	7.56E+03	2.20E+04	4.36E+04
TH228	3.30E+08	2.30E+08	1.60E+08	5.45E+07	9.42E+06	8.55E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
TH229	4.50E-02	5.85E-02	7.59E-02	1.51E-01	3.47E-01	1.01E+00	5.16E+00	1.95E+01	7.78E+01	5.16E+02	2.24E+03
TH230	6.60E+01	8.34E+01	1.01E+02	1.58E+02	2.63E+02	5.10E+02	1.51E+03	3.87E+03	1.02E+04	3.40E+04	7.60E+04
TH231	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06
TH232	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05	6.20E+05
TH234	1.70E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06
PA231	1.90E+02	2.35E+02	2.79E+02	4.13E+02	6.35E+02	1.08E+03	2.41E+03	4.63E+03	9.06E+03	2.23E+04	4.42E+04
PA233	8.60E+06	8.61E+06	8.61E+06	8.62E+06	8.65E+06	8.72E+06	9.00E+06	9.50E+06	1.04E+07	1.24E+07	1.42E+07
PA234M	1.70E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06
PA234	2.30E+03	2.47E+03	2.47E+03	2.47E+03	2.47E+03	2.47E+03	2.47E+03	2.47E+03	2.47E+03	2.47E+03	2.47E+03
U 233	1.20E+02	1.62E+02	2.03E+02	3.20E+02	5.09E+02	8.89E+02	2.05E+03	4.07E+03	8.42E+03	2.35E+04	5.27E+04
U 234	1.90E+06	1.96E+06	2.02E+06	2.19E+06	2.47E+06	3.00E+06	4.36E+06	6.02E+06	7.88E+06	9.29E+06	9.42E+06
U 235	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06

U 236	1.50E+06	1.50E+06	1.50E+06	1.50E+06	1.50E+06	1.50E+06	1.50E+06	1.51E+06	1.51E+06	1.53E+06	1.57E+06	1.64E+06
U 237	9.60E+06	1.79E+07	1.71E+07	1.48E+07	1.16E+07	7.17E+06	1.69E+06	1.53E+05	1.24E+03	6.65E-04	2.36E-14	
U 238	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06	1.90E+06
NP237	8.60E+06	8.61E+06	8.61E+06	8.62E+06	8.65E+06	8.72E+06	9.00E+06	9.50E+06	1.04E+07	1.24E+07	1.42E+07	
PU238	2.10E+10	2.08E+10	2.07E+10	2.02E+10	1.94E+10	1.79E+10	1.42E+10	9.54E+09	4.33E+09	4.05E+08	7.81E+06	
PU239	3.10E+09	3.10E+09	3.10E+09	3.10E+09	3.10E+09	3.10E+09	3.10E+09	3.09E+09	3.08E+09	3.06E+09	3.01E+09	
PU240	4.80E+09	4.80E+09	4.80E+09	4.80E+09	4.80E+09	4.79E+09	4.78E+09	4.75E+09	4.70E+09	4.55E+09	4.32E+09	
PU241	7.50E+11	7.15E+11	6.81E+11	5.90E+11	4.64E+11	2.87E+11	6.76E+10	6.10E+09	4.95E+07	2.66E+01	9.42E-10	
PU242	1.70E+07	1.70E+07	1.70E+07	1.70E+07	1.70E+07	1.70E+07	1.70E+07	1.70E+07	1.70E+07	1.70E+07	1.70E+07	
AM241	9.80E+09	1.10E+10	1.21E+10	1.50E+10	1.91E+10	2.47E+10	3.06E+10	3.02E+10	2.59E+10	1.60E+10	7.18E+09	
CM242	1.60E+05	3.39E+04	7.20E+03	6.86E+01	2.94E-02	5.40E-09	3.35E-29	0.0	0.0	0.0	0.0	
CM244	7.70E+03	7.41E+03	7.14E+03	6.36E+03	5.25E+03	3.58E+03	1.14E+03	1.68E+02	3.66E+00	3.78E-05	1.85E-13	
TOTAL	7.90E+11	7.56E+11	7.23E+11	6.33E+11	5.10E+11	3.37E+11	1.20E+11	5.37E+10	3.81E+10	2.41E+10	1.46E+10	

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = VBA - 200 L NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	2.22E-12	2.68E-12	3.23E-12	5.44E-12	1.08E-11	2.66E-11	1.00E-10	2.60E-10	6.07E-10	1.76E-09	3.50E-09
TL208	1.53E-05	5.28E-05	3.68E-05	1.25E-05	2.16E-06	1.96E-07	1.42E-07	1.42E-07	1.42E-07	1.42E-07	1.42E-07
TL209	4.49E-16	5.78E-16	7.50E-16	1.49E-15	3.43E-15	9.96E-15	5.10E-14	1.93E-13	7.69E-13	5.10E-12	2.21E-11
PB209	1.40E-15	1.82E-15	2.36E-15	4.68E-15	1.08E-14	3.13E-14	1.60E-13	6.07E-13	2.42E-12	1.60E-11	6.96E-11
PB210	1.57E-09	1.68E-09	1.78E-09	2.08E-09	2.52E-09	3.21E-09	4.33E-09	4.83E-09	4.77E-09	4.16E-09	3.42E-09
PB211	2.27E-12	2.74E-12	3.31E-12	5.57E-12	1.10E-11	2.72E-11	1.03E-10	2.66E-10	6.21E-10	1.81E-09	3.58E-09
PB212	3.29E-06	1.19E-05	8.29E-06	2.82E-06	4.87E-07	4.41E-08	3.19E-08	3.19E-08	3.19E-08	3.19E-08	3.19E-08
PB214	7.07E-08	7.07E-08	7.06E-08	7.06E-08	7.04E-08	7.01E-08	6.92E-08	6.77E-08	6.49E-08	5.72E-08	4.70E-08
BI210	1.25E-08	1.67E-08	1.77E-08	2.07E-08	2.51E-08	3.19E-08	4.31E-08	4.80E-08	4.75E-08	4.14E-08	3.40E-08
BI211	3.02E-11	3.65E-11	4.41E-11	7.41E-11	1.47E-10	3.62E-10	1.37E-09	3.54E-09	8.27E-09	2.40E-08	4.77E-08
BI212	2.94E-05	1.06E-04	7.41E-05	2.52E-05	4.35E-06	3.94E-07	2.85E-07	2.85E-07	2.85E-07	2.85E-07	2.85E-07
BI213	5.11E-15	6.65E-15	8.63E-15	1.71E-14	3.95E-14	1.15E-13	5.86E-13	2.22E-12	8.84E-12	5.86E-11	2.54E-10
BI214	2.84E-07	2.84E-07	2.84E-07	2.84E-07	2.83E-07	2.82E-07	2.78E-07	2.72E-07	2.61E-07	2.30E-07	1.89E-07
PO210	2.08E-07	2.21E-07	2.36E-07	2.79E-07	3.48E-07	4.44E-07	5.99E-07	6.68E-07	6.60E-07	5.75E-07	4.72E-07
PO211	1.03E-13	1.24E-13	1.49E-13	2.51E-13	4.97E-13	1.23E-12	4.63E-12	1.20E-11	2.80E-11	8.14E-11	1.61E-10
PO212	1.05E-05	2.13E-04	1.48E-04	5.04E-05	8.71E-06	7.88E-07	5.70E-07	5.70E-07	5.70E-07	5.70E-07	5.70E-07
PO213	6.02E-14	7.82E-14	1.02E-13	2.01E-13	4.64E-13	1.35E-12	6.90E-12	2.61E-11	1.04E-10	6.90E-10	2.99E-09
PO214	6.53E-07	1.03E-06	1.03E-06	1.03E-06	1.03E-06	1.02E-06	1.01E-06	9.86E-07	9.45E-07	8.33E-07	6.84E-07
PO215	3.38E-11	4.08E-11	4.93E-11	8.29E-11	1.64E-10	4.05E-10	1.53E-09	3.96E-09	9.25E-09	2.69E-08	5.33E-08
PO216	1.18E-05	2.47E-04	1.72E-04	5.86E-05	1.01E-05	9.17E-07	6.64E-07	6.64E-07	6.64E-07	6.64E-07	6.64E-07
PO218	5.09E-07	8.03E-07	8.03E-07	8.02E-07	8.00E-07	7.96E-07	7.86E-07	7.69E-07	7.37E-07	6.50E-07	5.34E-07
AT217	5.19E-14	6.75E-14	8.76E-14	1.74E-13	4.01E-13	1.16E-12	5.95E-12	2.25E-11	8.97E-11	5.95E-10	2.58E-09
RN219	3.12E-11	3.77E-11	4.55E-11	7.65E-11	1.52E-10	3.74E-10	1.41E-09	3.66E-09	8.54E-09	2.48E-08	4.92E-08
RN220	1.13E-05	2.37E-04	1.65E-04	5.62E-05	9.72E-06	8.79E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07
RN222	7.35E-07	7.34E-07	7.34E-07	7.33E-07	7.31E-07	7.28E-07	7.19E-07	7.04E-07	6.74E-07	5.94E-07	4.88E-07
FR221	4.66E-14	6.05E-14	7.86E-14	1.56E-13	3.59E-13	1.04E-12	5.34E-12	2.02E-11	8.05E-11	5.34E-10	2.32E-09
FR223	2.81E-14	3.32E-14	4.01E-14	6.75E-14	1.34E-13	3.30E-13	1.25E-12	3.23E-12	7.54E-12	2.19E-11	4.34E-11
RA223	2.68E-11	3.24E-11	3.91E-11	6.59E-11	1.31E-10	3.22E-10	1.21E-09	3.15E-09	7.35E-09	2.14E-08	4.23E-08
RA224	1.02E-05	2.14E-04	1.49E-04	5.08E-05	8.78E-06	7.95E-07	5.75E-07	5.75E-07	5.75E-07	5.75E-07	5.75E-07
RA225	8.53E-16	1.11E-15	1.44E-15	2.85E-15	6.58E-15	1.91E-14	9.78E-14	3.70E-13	1.47E-12	9.78E-12	4.24E-11
RA226	6.40E-07	6.40E-07	6.40E-07	6.39E-07	6.37E-07	6.35E-07	6.26E-07	6.13E-07	5.87E-07	5.18E-07	4.26E-07
RA228	1.29E-09	1.29E-09	1.29E-09	1.29E-09	1.29E-09	1.29E-09	1.29E-09	1.29E-09	1.29E-09	1.29E-09	1.29E-09
AC225	4.28E-14	5.56E-14	7.22E-14	1.43E-13	3.30E-13	9.59E-13	4.91E-12	1.86E-11	7.40E-11	4.91E-10	2.13E-09
AC227	3.67E-13	4.42E-13	5.34E-13	8.99E-13	1.78E-12	4.40E-12	1.66E-11	4.30E-11	1.00E-10	2.92E-10	5.79E-10
AC228	9.35E-08	1.45E-07	1.45E-07	1.45E-07	1.45E-07	1.45E-07	1.45E-07	1.45E-07	1.45E-07	1.45E-07	1.45E-07
TH227	2.76E-11	3.29E-11	3.97E-11	6.68E-11	1.32E-10	3.26E-10	1.23E-09	3.13E-09	7.45E-09	2.17E-08	4.29E-08
TH228	2.92E-04	2.03E-04	1.42E-04	4.82E-05	8.33E-06	7.56E-07	5.49E-07	5.49E-07	5.49E-07	5.49E-07	5.49E-07
TH229	3.73E-14	4.84E-14	6.29E-14	1.25E-13	2.88E-13	8.35E-13	4.27E-12	1.62E-11	6.44E-11	4.27E-10	1.85E-09
TH230	5.05E-11	6.37E-11	7.74E-11	1.21E-10	2.01E-10	3.90E-10	1.15E-09	2.96E-09	7.82E-09	2.60E-08	5.81E-08
TH231	3.19E-08	3.19E-08	3.19E-08	3.19E-08	3.19E-08	3.19E-08	3.19E-08	3.19E-08	3.19E-08	3.19E-08	3.19E-08
TH232	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07
TH234	1.86E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08
PA231	1.57E-10	1.94E-10	2.30E-10	3.40E-10	5.24E-10	8.90E-10	1.99E-09	3.82E-09	7.47E-09	1.84E-08	3.64E-08
PA233	5.28E-07	5.28E-07	5.28E-07	5.29E-07	5.31E-07	5.35E-07	5.52E-07	5.83E-07	6.38E-07	7.61E-07	8.70E-07
PA234M	2.27E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07
PA234	8.93E-10	9.59E-10	9.59E-10	9.59E-10	9.59E-10	9.59E-10	9.59E-10	9.59E-10	9.59E-10	9.59E-10	9.59E-10
U 233	9.44E-11	1.27E-10	1.60E-10	2.52E-10	4.00E-10	6.99E-10	1.61E-09	3.20E-09	6.63E-09	1.85E-08	4.14E-08
U 234	1.48E-06	1.52E-06	1.57E-06	1.71E-06	1.92E-06	2.34E-06	3.39E-06	4.68E-06	6.13E-06	7.22E-06	7.33E-06
U 235	1.57E-06	1.57E-06	1.57E-06	1.57E-06	1.57E-06	1.57E-06	1.57E-06	1.58E-06	1.58E-06	1.58E-06	1.58E-06

U 236	1.10E-06	1.10E-06	1.10E-06	1.10E-06	1.10E-06	1.10E-06	1.10E-06	1.10E-06	1.11E-06	1.12E-06	1.15E-06	1.20E-06
U 237	4.91E-07	9.15E-07	8.72E-07	7.55E-07	5.94E-07	3.67E-07	8.66E-08	7.80E-09	6.34E-11	3.40E-17	1.21E-27	
U 238	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06
NP237	6.83E-06	6.84E-06	6.84E-06	6.85E-06	6.87E-06	6.93E-06	7.15E-06	7.54E-06	8.26E-06	9.85E-06	1.13E-05	
PU238	1.88E-02	1.87E-02	1.85E-02	1.81E-02	1.74E-02	1.61E-02	1.27E-02	8.55E-03	3.88E-03	3.63E-04	6.99E-06	
PU239	2.61E-03	2.61E-03	2.61E-03	2.61E-03	2.60E-03	2.60E-03	2.60E-03	2.60E-03	2.59E-03	2.57E-03	2.53E-03	
PU240	4.04E-03	4.04E-03	4.04E-03	4.04E-03	4.04E-03	4.03E-03	4.02E-03	4.00E-03	3.96E-03	3.83E-03	3.64E-03	
PU241	6.25E-04	5.96E-04	5.68E-04	4.91E-04	3.86E-04	2.39E-04	5.63E-05	5.08E-06	4.13E-08	2.21E-14	7.85E-25	
PU242	1.36E-05	1.36E-05	1.36E-05	1.36E-05	1.36E-05	1.36E-05	1.36E-05	1.36E-05	1.36E-05	1.36E-05	1.36E-05	
AM241	8.86E-03	9.90E-03	1.09E-02	1.36E-02	1.73E-02	2.23E-02	2.76E-02	2.72E-02	2.34E-02	1.44E-02	6.48E-03	
CM242	1.59E-07	3.38E-08	7.17E-09	6.83E-11	2.93E-14	5.38E-21	3.34E-41	0.0	0.0	0.0	0.0	
CM244	7.28E-09	7.01E-09	6.75E-09	6.02E-09	4.97E-09	3.39E-09	1.08E-09	1.59E-10	3.46E-12	3.57E-17	1.75E-25	
TOTAL	3.54E-02	3.71E-02	3.76E-02	3.92E-02	4.18E-02	4.53E-02	4.70E-02	4.24E-02	3.38E-02	2.13E-02	1.27E-02	

FISSION PRODUCT

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = VBA - 200 L NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	8.10E+06	7.66E+06	7.24E+06	6.12E+06	4.62E+06	2.64E+06	4.90E+05	2.96E+04	1.08E+02	5.28E-06	3.45E-18
SR 90	3.00E+07	2.93E+07	2.86E+07	2.66E+07	2.37E+07	1.86E+07	9.13E+06	2.78E+06	2.57E+05	2.04E+02	1.39E-03
Y 90	3.00E+07	2.93E+07	2.86E+07	2.66E+07	2.37E+07	1.87E+07	9.13E+06	2.78E+06	2.57E+05	2.04E+02	1.39E-03
TC 99	8.60E+08	8.60E+08	8.60E+08	8.60E+08	8.60E+08	8.60E+08	8.60E+08	8.60E+08	8.60E+08	8.59E+08	8.58E+08
RU106	1.80E+08	9.05E+07	4.55E+07	5.79E+06	1.86E+05	1.92E+02	2.12E-07	2.50E-22	0.0	0.0	0.0
RH106	1.80E+08	9.05E+07	4.55E+07	5.79E+06	1.86E+05	1.92E+02	2.12E-07	2.50E-22	0.0	0.0	0.0
SB125	2.80E+06	2.18E+06	1.70E+06	7.98E+05	2.28E+05	1.85E+04	9.91E+00	3.50E-05	4.38E-16	0.0	0.0
TE125M	6.70E+05	5.32E+05	4.14E+05	1.95E+05	5.55E+04	4.51E+03	2.42E+00	8.55E-06	1.07E-16	0.0	0.0
CS134	9.30E+07	6.65E+07	4.75E+07	1.73E+07	3.23E+06	1.12E+05	4.69E+00	2.36E-07	5.98E-22	0.0	0.0
CS137	3.80E+08	3.71E+08	3.63E+08	3.39E+08	3.02E+08	2.40E+08	1.20E+08	3.77E+07	3.75E+06	3.66E+03	3.53E-02
BA137M	3.60E+08	3.51E+08	3.43E+08	3.20E+08	2.85E+08	2.27E+08	1.13E+08	3.57E+07	3.54E+06	3.47E+03	3.34E-02
CE144	5.60E+06	2.30E+06	9.44E+05	6.53E+04	7.61E+02	1.03E-01	2.59E-13	1.20E-32	0.0	0.0	0.0
PR144	5.60E+06	2.30E+06	9.44E+05	6.53E+04	7.61E+02	1.03E-01	2.59E-13	1.20E-32	0.0	0.0	0.0
PR144M	6.70E+04	2.76E+04	1.13E+04	7.83E+02	9.13E+00	1.24E-03	3.11E-15	1.43E-34	0.0	0.0	0.0
ND144	3.60E-09	4.83E-09	5.33E-09	5.65E-09	5.68E-09	5.68E-09	5.68E-09	5.68E-09	5.68E-09	5.68E-09	5.68E-09
PM147	1.60E+06	1.23E+06	9.44E+05	4.27E+05	1.14E+05	8.13E+03	2.94E+00	5.40E-06	1.82E-17	0.0	0.0
SM147	5.90E-05	6.81E-05	7.51E-05	8.78E-05	9.55E-05	9.81E-05	9.83E-05	9.83E-05	9.83E-05	9.83E-05	9.83E-05
EU154	1.60E+05	1.48E+05	1.36E+05	1.07E+05	7.15E+04	3.19E+04	2.85E+03	5.07E+01	1.60E-02	5.09E-13	1.62E-30
EU155	1.70E+04	1.48E+04	1.29E+04	8.46E+03	4.20E+03	1.04E+03	1.57E+01	1.45E-02	1.24E-08	7.71E-27	0.0
TOTAL	2.14E+09	1.91E+09	1.77E+09	1.61E+09	1.50E+09	1.37E+09	1.11E+09	9.39E+08	8.68E+08	8.59E+08	8.58E+08

FISSION PRODUCT

 NUCLIDE THERMAL POWER, WATTS
 BASIS = VBA - 200 L NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	7.40E-09	7.00E-09	6.61E-09	5.59E-09	4.22E-09	2.41E-09	4.47E-10	2.70E-11	9.88E-14	4.83E-21	3.15E-33
SR 90	9.41E-07	9.19E-07	8.98E-07	8.36E-07	7.42E-07	5.85E-07	2.86E-07	8.72E-08	8.07E-09	6.40E-12	4.36E-17
Y 90	4.50E-06	4.39E-06	4.29E-06	3.99E-06	3.54E-06	2.79E-06	1.37E-06	4.16E-07	3.85E-08	3.06E-11	2.08E-16
TC 99	1.17E-05	1.17E-05	1.17E-05	1.17E-05	1.17E-05	1.17E-05	1.17E-05	1.17E-05	1.17E-05	1.16E-05	1.16E-05
RU106	2.88E-07	1.45E-07	7.29E-08	9.27E-09	2.98E-10	3.08E-13	3.40E-22	4.01E-37	0.0	0.0	0.0
RH106	4.67E-05	2.35E-05	1.18E-05	1.50E-06	4.82E-08	4.99E-11	5.50E-20	6.49E-35	0.0	0.0	0.0
SB125	2.37E-07	1.84E-07	1.43E-07	6.75E-08	1.92E-08	1.56E-09	8.37E-13	2.96E-18	3.70E-29	0.0	0.0
TE125M	1.52E-08	1.21E-08	9.40E-09	4.43E-09	1.26E-09	1.02E-10	5.49E-14	1.94E-19	2.43E-30	0.0	0.0
CS134	2.56E-05	1.83E-05	1.31E-05	4.77E-06	8.88E-07	3.08E-08	1.29E-12	6.49E-20	1.65E-34	0.0	0.0
CS137	1.14E-05	1.11E-05	1.09E-05	1.01E-05	9.02E-06	7.16E-06	3.58E-06	1.13E-06	1.12E-07	1.10E-10	1.06E-15
BA137M	3.82E-05	3.73E-05	3.64E-05	3.40E-05	3.03E-05	2.40E-05	1.20E-05	3.79E-06	3.76E-07	3.68E-10	3.54E-15
CE144	1.00E-07	4.12E-08	1.69E-08	1.17E-09	1.36E-11	1.85E-15	4.64E-27	2.14E-46	0.0	0.0	0.0
PR144	1.11E-06	4.57E-07	1.88E-07	1.30E-08	1.51E-10	2.05E-14	5.14E-26	2.38E-45	0.0	0.0	0.0
PR144M	6.20E-10	2.55E-10	1.05E-10	7.24E-12	8.44E-14	1.15E-17	2.87E-29	1.33E-48	0.0	0.0	0.0
PM147	1.55E-08	1.19E-08	9.15E-09	4.14E-09	1.11E-09	7.88E-11	2.85E-14	5.23E-20	1.77E-31	0.0	0.0
SM147	2.18E-17	2.52E-17	2.78E-17	3.25E-17	3.53E-17	3.63E-17	3.64E-17	3.64E-17	3.64E-17	3.64E-17	3.64E-17
EU154	3.87E-08	3.57E-08	3.29E-08	2.59E-08	1.73E-08	7.72E-09	6.89E-10	1.23E-11	3.88E-15	1.23E-25	3.92E-43
EU155	3.34E-10	2.91E-10	2.53E-10	1.66E-10	8.27E-11	2.04E-11	3.09E-13	2.85E-16	2.44E-22	1.52E-40	0.0
TOTAL	1.41E-04	1.08E-04	8.95E-05	6.70E-05	5.62E-05	4.63E-05	2.89E-05	1.71E-05	1.22E-05	1.16E-05	1.16E-05

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

		RADIOACTIVITY ,BECQUEREL									
TOTAL	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
	7.97E+11	7.62E+11	7.27E+11	6.36E+11	5.12E+11	3.39E+11	1.21E+11	5.47E+10	3.90E+10	2.49E+10	1.55E+10
		THERMAL POWER ,WATTS									
TOTAL	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
	3.68E-02	3.82E-02	3.84E-02	3.97E-02	4.21E-02	4.54E-02	4.71E-02	4.25E-02	3.39E-02	2.13E-02	1.27E-02

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = VBA - 200 L SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	8.70E+06	8.70E+06	8.70E+06	8.70E+06	8.69E+06	8.68E+06	8.65E+06	8.60E+06	8.50E+06	8.19E+06	7.71E+06
NA 22	3.10E+07	2.38E+07	1.82E+07	8.19E+06	2.16E+06	1.51E+05	5.11E+01	8.41E-05	2.28E-16	0.0	0.0
CL 36	3.20E+04	3.20E+04	3.20E+04	3.20E+04	3.20E+04	3.20E+04	3.20E+04	3.20E+04	3.20E+04	3.20E+04	3.19E+04
CA 41	5.50E+05	5.50E+05	5.50E+05	5.50E+05	5.50E+05	5.50E+05	5.50E+05	5.50E+05	5.49E+05	5.48E+05	5.46E+05
CA 45	4.00E+05	8.47E+04	1.79E+04	1.70E+02	7.19E-02	1.29E-08	7.50E-29	0.0	0.0	0.0	0.0
SC 46	1.80E+05	8.78E+03	4.28E+02	4.97E-02	1.37E-08	1.05E-21	0.0	0.0	0.0	0.0	0.0
MN 54	4.70E+07	2.09E+07	9.31E+06	8.19E+05	1.43E+04	4.34E+00	1.21E-10	3.13E-28	0.0	0.0	0.0
FE 55	2.60E+10	1.99E+10	1.53E+10	6.86E+09	1.81E+09	1.26E+08	4.24E+04	6.91E-02	1.84E-13	0.0	0.0
FE 59	1.80E+05	6.50E+02	2.34E+00	1.10E-07	6.72E-20	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	1.80E+05	5.04E+03	1.41E+02	3.09E-03	5.30E-11	1.56E-26	0.0	0.0	0.0	0.0	0.0
CO 60	6.90E+09	6.05E+09	5.31E+09	3.58E+09	1.85E+09	4.98E+08	9.63E+06	1.34E+04	2.61E-02	1.92E-19	0.0
NI 59	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.29E+07	1.29E+07
NI 63	1.30E+09	1.29E+09	1.28E+09	1.25E+09	1.21E+09	1.12E+09	8.92E+08	6.12E+08	2.88E+08	3.01E+07	6.96E+05
ZN 65	1.80E+07	6.38E+06	2.26E+06	1.00E+05	5.60E+02	1.74E-02	5.22E-16	0.0	0.0	0.0	0.0
TOTAL	3.43E+10	2.73E+10	2.19E+10	1.17E+10	4.89E+09	1.76E+09	9.24E+08	6.35E+08	3.10E+08	5.18E+07	2.19E+07

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = VBA - 200 L SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	6.90E-08	6.90E-08	6.90E-08	6.90E-08	6.89E-08	6.89E-08	6.86E-08	6.82E-08	6.74E-08	6.50E-08	6.12E-08
NA 22	1.19E-05	9.09E-06	6.96E-06	3.13E-06	8.27E-07	5.76E-08	1.95E-11	3.22E-17	8.72E-29	0.0	0.0
CL 36	1.27E-09	1.27E-09	1.27E-09	1.27E-09	1.27E-09	1.27E-09	1.27E-09	1.26E-09	1.26E-09	1.26E-09	1.26E-09
CA 41	3.76E-08	3.76E-08	3.76E-08	3.76E-08	3.76E-08	3.76E-08	3.76E-08	3.76E-08	3.76E-08	3.75E-08	3.73E-08
CA 45	4.95E-09	1.05E-09	2.22E-10	2.10E-12	8.89E-16	1.60E-22	9.28E-43	0.0	0.0	0.0	0.0
SC 46	6.12E-08	2.99E-09	1.46E-10	1.69E-14	4.66E-21	3.55E-34	0.0	0.0	0.0	0.0	0.0
MN 54	6.33E-06	2.82E-06	1.25E-06	1.10E-07	1.92E-09	5.83E-13	1.63E-23	4.22E-41	0.0	0.0	0.0
FE 55	9.67E-04	7.41E-04	5.67E-04	2.55E-04	6.73E-05	4.68E-06	1.58E-09	2.57E-15	6.83E-27	0.0	0.0
FE 59	4.54E-08	1.64E-10	5.91E-13	2.77E-20	1.69E-32	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	2.91E-08	8.15E-10	2.28E-11	5.00E-16	8.57E-24	2.52E-39	0.0	0.0	0.0	0.0	0.0
CO 60	2.88E-03	2.52E-03	2.21E-03	1.49E-03	7.72E-04	2.07E-04	4.01E-06	5.59E-09	1.09E-14	8.01E-32	0.0
NI 59	2.24E-06	2.24E-06	2.24E-06	2.24E-06	2.24E-06	2.24E-06	2.24E-06	2.24E-06	2.23E-06	2.23E-06	2.22E-06
NI 63	1.40E-05	1.39E-05	1.38E-05	1.34E-05	1.29E-05	1.20E-05	9.58E-06	6.57E-06	3.09E-06	3.23E-07	7.47E-09
ZN 65	1.71E-06	6.04E-07	2.14E-07	9.51E-09	5.30E-11	1.65E-15	4.94E-29	0.0	0.0	0.0	0.0
TOTAL	3.88E-03	3.29E-03	2.80E-03	1.76E-03	8.56E-04	2.26E-04	1.59E-05	8.92E-06	5.43E-06	2.65E-06	2.33E-06

ACTINIDES

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = VBA - 200 L SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	8.20E+00	9.51E+00	1.10E+01	1.63E+01	2.79E+01	5.94E+01	1.97E+02	4.87E+02	1.11E+03	3.20E+03	6.31E+03
TL208	5.50E+06	7.69E+04	8.53E+04	9.78E+04	1.03E+05	1.04E+05	1.04E+05	1.04E+05	1.04E+05	1.04E+05	1.04E+05
TL209	2.30E-07	3.04E-07	3.79E-07	6.93E-07	1.61E-06	5.91E-06	6.41E-05	5.11E-04	4.22E-03	6.30E-02	4.33E-01
PB209	1.10E-05	1.38E-05	1.72E-05	3.15E-05	7.32E-05	2.69E-04	2.91E-03	2.32E-02	1.92E-01	2.86E+00	1.97E+01
PB210	1.50E-04	1.93E-04	2.47E-04	4.84E-04	1.26E-03	5.38E-03	7.06E-02	6.11E-01	5.00E+00	6.96E+01	3.22E+02
PB211	8.20E+00	9.54E+00	1.10E+01	1.63E+01	2.79E+01	5.96E+01	1.98E+02	4.89E+02	1.12E+03	3.21E+03	6.33E+03
PB212	1.80E+05	2.14E+05	2.38E+05	2.73E+05	2.87E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05
PB214	1.40E-03	1.75E-03	2.15E-03	3.77E-03	8.25E-03	2.67E-02	2.10E-01	1.22E+00	7.35E+00	6.96E+01	3.22E+02
BI210	1.50E-04	1.94E-04	2.47E-04	4.85E-04	1.26E-03	5.38E-03	7.06E-02	6.11E-01	5.00E+00	6.96E+01	3.22E+02
BI211	8.20E+00	9.54E+00	1.10E+01	1.63E+01	2.79E+01	5.96E+01	1.98E+02	4.89E+02	1.12E+03	3.21E+03	6.33E+03
BI212	1.80E+05	2.14E+05	2.38E+05	2.73E+05	2.87E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05
BI213	1.10E-05	1.38E-05	1.72E-05	3.15E-05	7.32E-05	2.69E-04	2.91E-03	2.32E-02	1.92E-01	2.86E+00	1.97E+01
BI214	1.40E-03	1.75E-03	2.15E-03	3.77E-03	8.25E-03	2.67E-02	2.10E-01	1.22E+00	7.35E+00	6.96E+01	3.22E+02
PO210	1.50E-04	1.71E-04	2.16E-04	4.31E-04	1.26E-03	5.38E-03	7.06E-02	6.11E-01	5.00E+00	6.96E+01	3.22E+02
PO211	2.50E-02	2.86E-02	3.31E-02	4.90E-02	8.38E-02	1.79E-01	5.93E-01	1.47E+00	3.35E+00	9.62E+00	1.90E+01
PO212	1.20E+05	1.37E+05	1.52E+05	1.75E+05	1.84E+05	1.86E+05	1.86E+05	1.86E+05	1.86E+05	1.86E+05	1.86E+05
PO213	1.00E-05	1.35E-05	1.69E-05	3.08E-05	7.16E-05	2.63E-04	2.85E-03	2.27E-02	1.88E-01	2.80E+00	1.92E+01
PO214	1.40E-03	1.75E-03	2.15E-03	3.77E-03	8.25E-03	2.67E-02	2.10E-01	1.22E+00	7.35E+00	6.96E+01	3.22E+02
PO215	8.20E+00	9.54E+00	1.10E+01	1.63E+01	2.79E+01	5.96E+01	1.98E+02	4.89E+02	1.12E+03	3.21E+03	6.33E+03
PO216	1.80E+05	2.14E+05	2.38E+05	2.73E+05	2.87E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05
PO218	1.40E-03	1.75E-03	2.15E-03	3.77E-03	8.25E-03	2.67E-02	2.10E-01	1.22E+00	7.35E+00	6.96E+01	3.22E+02
AT217	1.10E-05	1.38E-05	1.72E-05	3.15E-05	7.32E-05	2.69E-04	2.91E-03	2.32E-02	1.92E-01	2.86E+00	1.97E+01
RN219	8.20E+00	9.54E+00	1.10E+01	1.63E+01	2.79E+01	5.96E+01	1.98E+02	4.89E+02	1.12E+03	3.21E+03	6.33E+03
RN220	1.80E+05	2.14E+05	2.38E+05	2.73E+05	2.87E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05
RN222	1.40E-03	1.75E-03	2.15E-03	3.77E-03	8.25E-03	2.67E-02	2.10E-01	1.22E+00	7.35E+00	6.96E+01	3.22E+02
FR221	1.10E-05	1.38E-05	1.72E-05	3.15E-05	7.32E-05	2.69E-04	2.91E-03	2.32E-02	1.92E-01	2.86E+00	1.97E+01
FR223	1.10E-01	1.33E-01	1.54E-01	2.28E-01	3.91E-01	8.34E-01	2.77E+00	6.84E+00	1.56E+01	4.49E+01	8.86E+01
RA223	8.20E+00	9.54E+00	1.10E+01	1.63E+01	2.79E+01	5.96E+01	1.98E+02	4.89E+02	1.12E+03	3.21E+03	6.33E+03
RA224	1.80E+05	2.14E+05	2.38E+05	2.73E+05	2.87E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05
RA225	1.10E-05	1.38E-05	1.72E-05	3.15E-05	7.32E-05	2.69E-04	2.91E-03	2.32E-02	1.92E-01	2.86E+00	1.97E+01
RA226	1.40E-03	1.75E-03	2.15E-03	3.77E-03	8.25E-03	2.67E-02	2.10E-01	1.22E+00	7.35E+00	6.96E+01	3.22E+02
RA228	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05
AC225	1.10E-05	1.38E-05	1.72E-05	3.15E-05	7.32E-05	2.69E-04	2.91E-03	2.32E-02	1.92E-01	2.86E+00	1.97E+01
AC227	8.20E+00	9.52E+00	1.10E+01	1.63E+01	2.79E+01	5.96E+01	1.98E+02	4.89E+02	1.12E+03	3.21E+03	6.33E+03
AC228	1.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05
TH227	8.10E+00	9.41E+00	1.09E+01	1.61E+01	2.76E+01	5.88E+01	1.95E+02	4.82E+02	1.10E+03	3.16E+03	6.24E+03
TH228	1.80E+05	2.13E+05	2.37E+05	2.72E+05	2.87E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05
TH229	1.10E-05	1.38E-05	1.72E-05	3.15E-05	7.32E-05	2.69E-04	2.91E-03	2.32E-02	1.92E-01	2.86E+00	1.97E+01
TH230	7.40E-01	8.65E-01	1.01E+00	1.52E+00	2.68E+00	6.09E+00	2.41E+01	7.45E+01	2.24E+02	8.16E+02	1.88E+03
TH231	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05
TH232	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05
TH234	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06
PA231	4.70E+01	5.34E+01	5.98E+01	7.88E+01	1.11E+02	1.74E+02	3.64E+02	6.81E+02	1.31E+03	3.20E+03	6.33E+03
PA233	1.10E+03	1.26E+03	1.42E+03	2.00E+03	3.16E+03	6.02E+03	1.67E+04	3.57E+04	7.02E+04	1.46E+05	2.14E+05
PA234M	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06
PA234	2.60E+03	2.60E+03	2.60E+03	2.60E+03	2.60E+03	2.60E+03	2.60E+03	2.60E+03	2.60E+03	2.60E+03	2.60E+03
U 232	8.20E-01	8.12E-01	8.05E-01	7.82E-01	7.45E-01	6.77E-01	5.07E-01	3.13E-01	1.20E-01	6.67E-03	5.42E-05
U 233	2.70E-02	3.27E-02	3.91E-02	6.21E-02	1.18E-01	3.16E-01	1.78E+00	7.52E+00	3.09E+01	1.77E+02	5.79E+02
U 234	1.30E+04	1.48E+04	1.65E+04	2.17E+04	3.00E+04	4.56E+04	8.59E+04	1.35E+05	1.91E+05	2.34E+05	2.41E+05

U 235	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05	3.00E+05
U 236	8.10E+01	8.90E+01	9.70E+01	1.21E+02	1.61E+02	2.41E+02	4.80E+02	8.76E+02	1.66E+03	3.97E+03	7.67E+03	
U 237	3.20E+05	6.21E+05	5.91E+05	5.12E+05	4.02E+05	2.49E+05	5.87E+04	5.29E+03	4.30E+01	2.31E-05	8.17E-16	
U 238	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06
U 240	2.60E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05
NP237	1.10E+03	1.26E+03	1.42E+03	2.00E+03	3.16E+03	6.02E+03	1.67E+04	3.57E+04	7.02E+04	1.46E+05	2.14E+05	
NP238	8.50E-01	2.04E+00	2.03E+00	2.00E+00	1.96E+00	1.87E+00	1.63E+00	1.30E+00	8.24E-01	2.10E-01	2.15E-02	
NP239	1.00E+03	2.40E+03	2.40E+03	2.40E+03	2.40E+03	2.40E+03	2.39E+03	2.38E+03	2.36E+03	2.29E+03	2.19E+03	
NP240M	2.60E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05
PU238	6.20E+08	6.15E+08	6.11E+08	5.96E+08	5.73E+08	5.30E+08	4.18E+08	2.82E+08	1.28E+08	1.20E+07	2.30E+05	
PU239	2.30E+08	2.30E+08	2.30E+08	2.30E+08	2.30E+08	2.30E+08	2.30E+08	2.29E+08	2.29E+08	2.27E+08	2.24E+08	
PU240	2.70E+08	2.70E+08	2.70E+08	2.70E+08	2.70E+08	2.70E+08	2.69E+08	2.67E+08	2.64E+08	2.56E+08	2.43E+08	
PU241	2.60E+10	2.48E+10	2.36E+10	2.04E+10	1.61E+10	9.93E+09	2.34E+09	2.11E+08	1.72E+06	9.22E-01	3.27E-11	
PU242	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05
PU244	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05	6.20E-05
AM241	4.60E+08	5.00E+08	5.38E+08	6.41E+08	7.81E+08	9.71E+08	1.17E+09	1.15E+09	9.84E+08	6.09E+08	2.73E+08	
AM242M	4.10E+02	4.08E+02	4.06E+02	4.01E+02	3.92E+02	3.74E+02	3.27E+02	2.60E+02	1.65E+02	4.20E+01	4.30E+00	
AM242	1.70E+02	4.06E+02	4.04E+02	3.99E+02	3.90E+02	3.73E+02	3.25E+02	2.59E+02	1.64E+02	4.18E+01	4.27E+00	
AM243	2.40E+03	2.40E+03	2.40E+03	2.40E+03	2.40E+03	2.40E+03	2.39E+03	2.38E+03	2.36E+03	2.29E+03	2.19E+03	
CM242	1.30E+05	2.78E+04	6.17E+03	3.86E+02	3.23E+02	3.08E+02	2.69E+02	2.14E+02	1.36E+02	3.45E+01	3.54E+00	
CM243	1.60E+03	1.56E+03	1.52E+03	1.42E+03	1.26E+03	9.84E+02	4.75E+02	1.41E+02	1.24E+01	8.40E-03	4.41E-08	
CM244	3.00E+05	2.89E+05	2.78E+05	2.48E+05	2.05E+05	1.40E+05	4.43E+04	6.54E+03	1.42E+02	1.47E-03	7.22E-12	
TOTAL	2.76E+10	2.64E+10	2.53E+10	2.22E+10	1.79E+10	1.19E+10	4.44E+09	2.15E+09	1.62E+09	1.11E+09	7.50E+08	

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = VBA - 200 L SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	6.51E-13	7.55E-13	8.72E-13	1.29E-12	2.21E-12	4.72E-12	1.56E-11	3.87E-11	8.83E-11	2.54E-10	5.01E-10
TL208	3.50E-06	4.89E-08	5.42E-08	6.22E-08	6.56E-08	6.62E-08	6.62E-08	6.62E-08	6.62E-08	6.62E-08	6.62E-08
TL209	1.03E-19	1.37E-19	1.70E-19	3.11E-19	7.23E-19	2.65E-18	2.88E-17	2.29E-16	1.89E-15	2.83E-14	1.94E-13
PB209	3.42E-19	4.30E-19	5.36E-19	9.79E-19	2.27E-18	8.35E-18	9.05E-17	7.21E-16	5.96E-15	8.90E-14	6.11E-13
PB210	9.40E-19	1.21E-18	1.55E-18	3.03E-18	7.87E-18	3.37E-17	4.42E-16	3.83E-15	3.13E-14	4.36E-13	2.02E-12
PB211	6.64E-13	7.72E-13	8.92E-13	1.32E-12	2.26E-12	4.83E-12	1.60E-11	3.96E-11	9.03E-11	2.60E-10	5.13E-10
PB212	9.27E-09	1.10E-08	1.22E-08	1.40E-08	1.48E-08	1.49E-08	1.49E-08	1.49E-08	1.49E-08	1.49E-08	1.49E-08
PB214	1.21E-16	1.51E-16	1.85E-16	3.25E-16	7.11E-16	2.30E-15	1.81E-14	1.05E-13	6.34E-13	6.00E-12	2.78E-11
BI210	9.35E-18	1.21E-17	1.54E-17	3.02E-17	7.83E-17	3.35E-16	4.40E-15	3.81E-14	3.12E-13	4.34E-12	2.01E-11
BI211	8.84E-12	1.03E-11	1.19E-11	1.76E-11	3.01E-11	6.43E-11	2.13E-10	5.27E-10	1.20E-09	3.46E-09	6.83E-09
BI212	8.28E-08	9.84E-08	1.09E-07	1.25E-07	1.32E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07
BI213	1.25E-18	1.57E-18	1.96E-18	3.58E-18	8.32E-18	3.05E-17	3.31E-16	2.64E-15	2.18E-14	3.25E-13	2.24E-12
BI214	4.85E-16	6.05E-16	7.45E-16	1.31E-15	2.86E-15	9.24E-15	7.26E-14	4.24E-13	2.55E-12	2.41E-11	1.12E-10
PO210	1.30E-16	1.48E-16	1.87E-16	3.73E-16	1.09E-15	4.66E-15	6.11E-14	5.29E-13	4.33E-12	6.03E-11	2.79E-10
PO211	3.04E-14	3.48E-14	4.02E-14	5.96E-14	1.02E-13	2.18E-13	7.22E-13	1.78E-12	4.07E-12	1.17E-11	2.31E-11
PO212	1.72E-07	1.97E-07	2.18E-07	2.51E-07	2.64E-07	2.67E-07	2.67E-07	2.67E-07	2.67E-07	2.67E-07	2.67E-07
PO213	1.37E-17	1.85E-17	2.31E-17	4.21E-17	9.79E-17	3.59E-16	3.89E-15	3.10E-14	2.56E-13	3.83E-12	2.63E-11
PO214	1.76E-15	2.19E-15	2.70E-15	4.74E-15	1.04E-14	3.35E-14	2.63E-13	1.54E-12	9.23E-12	8.73E-11	4.04E-10
PO215	9.89E-12	1.15E-11	1.33E-11	1.97E-11	3.37E-11	7.19E-11	2.38E-10	5.89E-10	1.35E-09	3.87E-09	7.64E-09
PO216	1.93E-07	2.29E-07	2.54E-07	2.92E-07	3.07E-07	3.10E-07	3.10E-07	3.10E-07	3.10E-07	3.10E-07	3.10E-07
PO218	1.37E-15	1.71E-15	2.11E-15	3.70E-15	8.08E-15	2.61E-14	2.05E-13	1.20E-12	7.20E-12	6.81E-11	3.16E-10
AT217	1.27E-17	1.60E-17	1.99E-17	3.63E-17	8.44E-17	3.10E-16	3.36E-15	2.68E-14	2.21E-13	3.30E-12	2.27E-11
RN219	9.13E-12	1.06E-11	1.23E-11	1.82E-11	3.11E-11	6.63E-11	2.20E-10	5.44E-10	1.24E-09	3.57E-09	7.05E-09
RN220	1.85E-07	2.20E-07	2.44E-07	2.80E-07	2.95E-07	2.98E-07	2.98E-07	2.98E-07	2.98E-07	2.98E-07	2.98E-07
RN222	1.25E-15	1.56E-15	1.93E-15	3.38E-15	7.39E-15	2.39E-14	1.88E-13	1.10E-12	6.58E-12	6.23E-11	2.89E-10
FR221	1.14E-17	1.43E-17	1.78E-17	3.26E-17	7.57E-17	2.78E-16	3.01E-15	2.40E-14	1.98E-13	2.96E-12	2.04E-11
FR223	7.72E-15	9.35E-15	1.08E-14	1.60E-14	2.74E-14	5.85E-14	1.94E-13	4.80E-13	1.10E-12	3.15E-12	6.22E-12
RA223	7.86E-12	9.14E-12	1.06E-11	1.57E-11	2.68E-11	5.71E-11	1.89E-10	4.68E-10	1.07E-09	3.07E-09	6.07E-09
RA224	1.67E-07	1.99E-07	2.20E-07	2.53E-07	2.67E-07	2.69E-07	2.69E-07	2.69E-07	2.69E-07	2.69E-07	2.69E-07
RA225	2.09E-19	2.62E-19	3.27E-19	5.97E-19	1.39E-18	5.09E-18	5.52E-17	4.40E-16	3.63E-15	5.43E-14	3.73E-13
RA226	1.09E-15	1.36E-15	1.68E-15	2.95E-15	6.44E-15	2.08E-14	1.64E-13	9.55E-13	5.74E-12	5.43E-11	2.51E-10
RA228	6.04E-10	6.04E-10	6.04E-10	6.04E-10	6.04E-10	6.04E-10	6.04E-10	6.04E-10	6.04E-10	6.04E-10	6.04E-10
AC225	1.05E-17	1.32E-17	1.64E-17	2.99E-17	6.96E-17	2.55E-16	2.77E-15	2.21E-14	1.82E-13	2.72E-12	1.87E-11
AC227	1.07E-13	1.25E-13	1.44E-13	2.14E-13	3.65E-13	7.80E-13	2.59E-12	6.40E-12	1.46E-11	4.20E-11	8.29E-11
AC228	4.44E-08	6.78E-08	6.78E-08	6.78E-08	6.78E-08	6.78E-08	6.78E-08	6.78E-08	6.78E-08	6.78E-08	6.78E-08
TH227	7.98E-12	9.26E-12	1.07E-11	1.59E-11	2.71E-11	5.79E-11	1.92E-10	4.75E-10	1.08E-09	3.11E-09	6.15E-09
TH228	1.59E-07	1.89E-07	2.09E-07	2.41E-07	2.54E-07	2.56E-07	2.57E-07	2.57E-07	2.57E-07	2.57E-07	2.57E-07
TH229	9.11E-18	1.15E-17	1.43E-17	2.61E-17	6.06E-17	2.22E-16	2.41E-15	1.92E-14	1.59E-13	2.37E-12	1.63E-11
TH230	5.66E-13	6.61E-13	7.69E-13	1.16E-12	2.05E-12	4.66E-12	1.84E-11	5.69E-11	1.71E-10	6.24E-10	1.44E-09
TH231	4.55E-09	4.55E-09	4.55E-09	4.55E-09	4.55E-09	4.55E-09	4.55E-09	4.55E-09	4.55E-09	4.56E-09	4.56E-09
TH232	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.90E-07
TH234	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08
PA231	3.88E-11	4.40E-11	4.93E-11	6.50E-11	9.12E-11	1.44E-10	3.00E-10	5.62E-10	1.08E-09	2.64E-09	5.22E-09
PA233	6.75E-11	7.71E-11	8.74E-11	1.23E-10	1.94E-10	3.69E-10	1.03E-09	2.19E-09	4.31E-09	8.97E-09	1.31E-08
PA234M	2.67E-07	2.67E-07	2.67E-07	2.67E-07	2.67E-07	2.67E-07	2.67E-07	2.67E-07	2.67E-07	2.67E-07	2.67E-07
PA234	1.01E-09	1.01E-09	1.01E-09	1.01E-09	1.01E-09	1.01E-09	1.01E-09	1.01E-09	1.01E-09	1.01E-09	1.01E-09
U 232	7.12E-13	7.05E-13	6.98E-13	6.78E-13	6.46E-13	5.87E-13	4.40E-13	2.72E-13	1.04E-13	5.78E-15	4.70E-17
U 233	2.12E-14	2.57E-14	3.08E-14	4.89E-14	9.26E-14	2.48E-13	1.40E-12	5.91E-12	2.43E-11	1.39E-10	4.55E-10
U 234	1.01E-08	1.15E-08	1.28E-08	1.68E-08	2.33E-08	3.55E-08	6.68E-08	1.05E-07	1.48E-07	1.82E-07	1.87E-07

U 235	2.25E-07	2.25E-07	2.25E-07	2.25E-07	2.25E-07	2.25E-07	2.25E-07	2.25E-07	2.25E-07	2.25E-07	2.25E-07	2.25E-07
U 236	5.93E-11	6.52E-11	7.10E-11	8.86E-11	1.18E-10	1.76E-10	3.51E-10	6.42E-10	1.22E-09	2.91E-09	5.61E-09	5.61E-09
U 237	1.64E-08	3.17E-08	3.02E-08	2.62E-08	2.06E-08	1.27E-08	3.00E-09	2.71E-10	2.20E-12	1.18E-18	4.18E-29	4.18E-29
U 238	1.37E-06	1.37E-06	1.37E-06	1.37E-06	1.37E-06	1.37E-06	1.37E-06	1.37E-06	1.37E-06	1.37E-06	1.37E-06	1.37E-06
U 240	5.77E-19	1.37E-18	1.37E-18	1.37E-18	1.37E-18	1.37E-18	1.37E-18	1.37E-18	1.37E-18	1.37E-18	1.37E-18	1.37E-18
NP237	8.74E-10	9.98E-10	1.13E-09	1.59E-09	2.51E-09	4.78E-09	1.33E-08	2.84E-08	5.58E-08	1.16E-07	1.70E-07	1.70E-07
NP238	1.10E-13	2.64E-13	2.63E-13	2.60E-13	2.54E-13	2.42E-13	2.11E-13	1.68E-13	1.07E-13	2.72E-14	2.78E-15	2.78E-15
NP239	6.54E-11	1.57E-10	1.57E-10	1.57E-10	1.57E-10	1.57E-10	1.56E-10	1.55E-10	1.54E-10	1.50E-10	1.43E-10	1.43E-10
NP240M	4.07E-18	9.70E-18	9.70E-18	9.70E-18	9.70E-18	9.70E-18	9.70E-18	9.70E-18	9.70E-18	9.70E-18	9.70E-18	9.70E-18
PU238	5.56E-04	5.51E-04	5.47E-04	5.34E-04	5.14E-04	4.75E-04	3.74E-04	2.52E-04	1.15E-04	1.07E-05	2.07E-07	2.07E-07
PU239	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.92E-04	1.91E-04	1.88E-04	1.88E-04
PU240	2.27E-04	2.27E-04	2.27E-04	2.27E-04	2.27E-04	2.27E-04	2.26E-04	2.25E-04	2.23E-04	2.16E-04	2.05E-04	2.05E-04
PU241	2.17E-05	2.07E-05	1.97E-05	1.70E-05	1.34E-05	8.28E-06	1.95E-06	1.76E-07	1.43E-09	7.68E-16	2.72E-26	2.72E-26
PU242	2.08E-07	2.08E-07	2.08E-07	2.08E-07	2.08E-07	2.08E-07	2.08E-07	2.08E-07	2.08E-07	2.08E-07	2.07E-07	2.07E-07
PU244	4.86E-17	4.86E-17	4.86E-17	4.86E-17	4.86E-17	4.86E-17	4.86E-17	4.86E-17	4.86E-17	4.86E-17	4.86E-17	4.86E-17
AM241	4.16E-04	4.52E-04	4.86E-04	5.79E-04	7.05E-04	8.77E-04	1.06E-03	1.04E-03	8.89E-04	5.50E-04	2.47E-04	2.47E-04
AM242M	4.38E-12	4.36E-12	4.34E-12	4.28E-12	4.18E-12	4.00E-12	3.48E-12	2.77E-12	1.76E-12	4.48E-13	4.58E-14	4.58E-14
AM242	5.34E-12	1.28E-11	1.27E-11	1.25E-11	1.22E-11	1.17E-11	1.02E-11	8.12E-12	5.15E-12	1.31E-12	1.34E-13	1.34E-13
AM243	2.09E-09	2.09E-09	2.09E-09	2.09E-09	2.09E-09	2.09E-09	2.09E-09	2.08E-09	2.07E-09	2.05E-09	2.00E-09	1.90E-09
CM242	1.30E-07	2.77E-08	6.14E-09	3.85E-10	3.21E-10	3.07E-10	2.68E-10	2.13E-10	1.35E-10	3.44E-11	3.52E-12	3.52E-12
CM243	1.59E-09	1.55E-09	1.51E-09	1.41E-09	1.24E-09	9.76E-10	4.71E-10	1.40E-10	1.23E-11	8.33E-15	4.37E-20	4.37E-20
CM244	2.84E-07	2.73E-07	2.63E-07	2.34E-07	1.94E-07	1.32E-07	4.19E-08	6.18E-09	1.35E-10	1.39E-15	6.83E-24	6.83E-24
TOTAL	1.42E-03	1.45E-03	1.48E-03	1.56E-03	1.66E-03	1.78E-03	1.86E-03	1.71E-03	1.42E-03	9.71E-04	6.44E-04	6.44E-04

FISSION PRODUCT

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = VBA - 200 L SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	3.10E+07	2.93E+07	2.77E+07	2.34E+07	1.77E+07	1.01E+07	1.87E+06	1.13E+05	4.14E+02	2.02E-05	1.32E-17
SR 90	2.90E+10	2.83E+10	2.77E+10	2.58E+10	2.29E+10	1.80E+10	8.83E+09	2.69E+09	2.49E+08	1.97E+05	1.34E+00
Y 90	2.90E+10	2.83E+10	2.77E+10	2.58E+10	2.29E+10	1.80E+10	8.83E+09	2.69E+09	2.49E+08	1.97E+05	1.34E+00
ZR 93	8.20E+02	8.20E+02	8.20E+02	8.20E+02	8.20E+02	8.20E+02	8.20E+02	8.20E+02	8.20E+02	8.20E+02	8.20E+02
ZR 95	1.10E+09	2.11E+07	4.03E+05	2.83E+00	7.26E-09	4.79E-26	0.0	0.0	0.0	0.0	0.0
NB 93M	9.00E+05	8.56E+05	8.13E+05	6.98E+05	5.41E+05	3.25E+05	7.12E+04	6.29E+03	8.13E+02	7.79E+02	7.79E+02
NB 94	8.20E+02	8.20E+02	8.20E+02	8.20E+02	8.20E+02	8.20E+02	8.19E+02	8.18E+02	8.15E+02	8.06E+02	7.93E+02
NB 95	1.20E+09	4.75E+07	9.27E+05	6.27E+00	1.61E-08	1.06E-25	0.0	0.0	0.0	0.0	0.0
NB 95M	1.20E-07	1.56E+05	2.99E+03	2.10E-02	5.38E-11	3.55E-28	0.0	0.0	0.0	0.0	0.0
TC 99	5.90E+05	5.90E+05	5.90E+05	5.90E+05	5.90E+05	5.90E+05	5.90E+05	5.90E+05	5.90E+05	5.89E+05	5.88E+05
RU106	2.40E+10	1.21E+10	6.07E+09	7.72E+08	2.48E+07	2.56E+04	2.83E-05	3.34E-20	0.0	0.0	0.0
RH106	2.40E+10	1.21E+10	6.07E+09	7.72E+08	2.48E+07	2.56E+04	2.83E-05	3.34E-20	0.0	0.0	0.0
PD107	5.80E+00	5.80E+00	5.80E+00	5.80E+00	5.80E+00	5.80E+00	5.80E+00	5.80E+00	5.80E+00	5.80E+00	5.80E+00
AG108	4.40E+04	5.58E+04	5.55E+04	5.46E+04	5.31E+04	5.03E+04	4.27E+04	3.25E+04	1.88E+04	3.67E+03	2.39E+02
AG108M	6.30E+05	6.27E+05	6.23E+05	6.13E+05	5.97E+05	5.65E+05	4.80E+05	3.65E+05	2.12E+05	4.12E+04	2.69E+03
AG110	1.60E+02	2.37E+05	8.60E+04	4.12E+03	2.60E+01	1.04E-03	6.59E-17	0.0	0.0	0.0	0.0
AG110M	4.90E+07	1.78E+07	6.47E+06	3.10E+05	1.96E+03	7.80E-02	4.96E-15	0.0	0.0	0.0	0.0
SN126	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	2.99E+03	2.98E+03
SB125	5.50E+09	4.28E+09	3.33E+09	1.57E+09	4.47E+08	3.63E+07	1.95E+04	6.88E-02	8.60E-13	0.0	0.0
SB126	2.20E+02	4.20E+02	4.20E+02	4.20E+02	4.20E+02	4.20E+02	4.20E+02	4.20E+02	4.20E+02	4.19E+02	4.17E+02
SB126M	1.60E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	3.00E+03	2.99E+03	2.98E+03
TE125M	1.20E+09	1.04E+09	8.13E+08	3.83E+08	1.09E+08	8.86E+06	4.75E+03	1.68E-02	2.10E-13	0.0	0.0
I 129	5.50E+03	5.50E+03	5.50E+03	5.50E+03	5.50E+03	5.50E+03	5.50E+03	5.50E+03	5.50E+03	5.50E+03	5.50E+03
CS134	4.90E+09	3.50E+09	2.50E+09	9.13E+08	1.70E+08	5.90E+06	2.47E+02	1.24E-05	3.15E-20	0.0	0.0
CS135	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04
CS137	4.70E+10	4.59E+10	4.49E+10	4.19E+10	3.73E+10	2.96E+10	1.48E+10	4.67E+09	4.63E+08	4.53E+05	4.37E+00
BA137M	4.40E+10	4.35E+10	4.25E+10	3.96E+10	3.53E+10	2.80E+10	1.40E+10	4.42E+09	4.38E+08	4.29E+05	4.13E+00
CE144	2.80E+09	1.15E+09	4.72E+08	3.26E+07	3.80E+05	5.17E+01	1.29E-10	5.98E-30	0.0	0.0	0.0
PR144	2.80E+09	1.15E+09	4.72E+08	3.26E+07	3.80E+05	5.17E+01	1.29E-10	5.98E-30	0.0	0.0	0.0
PR144M	3.40E+07	1.38E+07	5.66E+06	3.92E+05	4.57E+03	6.20E-01	1.55E-12	7.17E-32	0.0	0.0	0.0
ND144	1.90E-06	2.51E-06	2.76E-06	2.93E-06	2.94E-06	2.94E-06	2.94E-06	2.94E-06	2.94E-06	2.94E-06	2.94E-06
PM147	1.80E+07	1.38E+07	1.06E+07	4.81E+06	1.28E+06	9.14E+04	3.31E+01	6.08E-05	2.05E-16	0.0	0.0
SM147	4.30E-04	5.33E-04	6.11E-04	7.54E-04	8.40E-04	8.69E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04	8.72E-04
SM148	3.80E-23	4.72E-23	5.75E-23	9.46E-23	1.74E-22	3.84E-22	1.21E-21	2.78E-21	5.98E-21	1.56E-20	3.16E-20
EU152	7.70E+06	7.32E+06	6.96E+06	5.97E+06	4.63E+06	2.78E+06	6.03E+05	4.72E+04	2.89E+02	6.64E-05	5.73E-16
EU154	4.30E+06	3.97E+06	3.66E+06	2.88E+06	1.92E+06	8.59E+05	7.65E+04	1.36E+03	4.31E-01	1.37E-11	4.36E-29
EU155	1.50E+06	1.30E+06	1.13E+06	7.46E+05	3.71E+05	9.17E+04	1.39E+03	1.28E+00	1.09E-06	6.80E-25	0.0
GD152	9.90E-08	1.12E-07	1.25E-07	1.60E-07	2.07E-07	2.72E-07	3.48E-07	3.68E-07	3.69E-07	3.69E-07	3.69E-07
TOTAL	2.17E+11	1.82E+11	1.63E+11	1.38E+11	1.19E+11	9.38E+10	4.65E+10	1.45E+10	1.40E+09	1.95E+06	6.30E+05

NUCLIDE THERMAL POWER, WATTS
BASIS = VBA - 200 L SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	2.83E-08	2.68E-08	2.53E-08	2.14E-08	1.62E-08	9.22E-09	1.71E-09	1.04E-10	3.78E-13	1.85E-20	1.20E-32
SR 90	9.10E-04	8.89E-04	8.68E-04	8.08E-04	7.17E-04	5.65E-04	2.77E-04	8.43E-05	7.80E-06	6.19E-09	4.21E-14
Y 90	4.35E-03	4.24E-03	4.14E-03	3.86E-03	3.43E-03	2.70E-03	1.32E-03	4.02E-04	3.73E-05	2.96E-08	2.01E-13
ZR 93	2.58E-12	2.58E-12	2.58E-12	2.58E-12	2.58E-12	2.58E-12	2.58E-12	2.58E-12	2.58E-12	2.58E-12	2.57E-12
ZR 95	1.51E-04	2.88E-06	5.52E-08	3.87E-13	9.94E-22	6.55E-39	0.0	0.0	0.0	0.0	0.0
NB 93M	4.31E-09	4.10E-09	3.90E-09	3.34E-09	2.59E-09	1.56E-09	3.41E-10	3.01E-11	3.89E-12	3.73E-12	3.73E-12
NB 94	2.26E-10	2.26E-10	2.26E-10	2.26E-10	2.26E-10	2.26E-10	2.26E-10	2.25E-10	2.24E-10	2.22E-10	2.18E-10
NB 95	1.56E-04	6.15E-06	1.20E-07	8.13E-13	2.09E-21	1.38E-38	0.0	0.0	0.0	0.0	0.0
NB 95M	4.51E-21	5.87E-09	1.12E-10	7.87E-16	2.02E-24	1.33E-41	0.0	0.0	0.0	0.0	0.0
TC 99	8.00E-09	8.00E-09	8.00E-09	8.00E-09	8.00E-09	8.00E-09	8.00E-09	8.00E-09	7.99E-09	7.99E-09	7.97E-09
RU106	3.85E-05	1.93E-05	9.73E-06	1.24E-06	3.98E-08	4.11E-11	4.53E-20	5.35E-35	0.0	0.0	0.0
RH106	6.22E-03	3.13E-03	1.57E-03	2.00E-04	6.43E-06	6.65E-09	7.34E-18	8.65E-33	0.0	0.0	0.0
PD107	9.30E-15	9.30E-15	9.30E-15	9.30E-15	9.30E-15	9.30E-15	9.30E-15	9.30E-15	9.30E-15	9.30E-15	9.29E-15
AG108	4.43E-09	5.62E-09	5.59E-09	5.50E-09	5.35E-09	5.06E-09	4.30E-09	3.27E-09	1.90E-09	3.69E-10	2.41E-11
AG108M	1.66E-07	1.65E-07	1.64E-07	1.61E-07	1.57E-07	1.49E-07	1.26E-07	9.60E-08	5.56E-08	1.08E-08	7.07E-10
AG110	3.11E-11	4.60E-08	1.67E-08	8.00E-10	5.05E-12	2.02E-16	1.28E-29	0.0	0.0	0.0	0.0
AG110M	2.21E-05	8.03E-06	2.92E-06	1.40E-07	8.83E-10	3.52E-14	2.24E-27	0.0	0.0	0.0	0.0
SN126	1.01E-10	1.01E-10	1.01E-10	1.01E-10	1.01E-10	1.01E-10	1.01E-10	1.01E-10	1.01E-10	1.01E-10	1.00E-10
SB125	4.65E-04	3.62E-04	2.81E-04	1.33E-04	3.78E-05	3.07E-06	1.64E-09	5.81E-15	7.27E-26	0.0	0.0
SB126	1.10E-10	2.10E-10	2.10E-10	2.10E-10	2.10E-10	2.10E-10	2.10E-10	2.10E-10	2.10E-10	2.09E-10	2.08E-10
SB126M	5.51E-10	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09
TE125M	2.73E-05	2.37E-05	1.85E-05	8.69E-06	2.48E-06	2.01E-07	1.08E-10	3.81E-16	4.77E-27	0.0	0.0
I 129	6.88E-11	6.88E-11	6.88E-11	6.88E-11	6.88E-11	6.88E-11	6.88E-11	6.88E-11	6.88E-11	6.88E-11	6.88E-11
CS134	1.35E-03	9.64E-04	6.89E-04	2.51E-04	4.68E-05	1.62E-06	6.79E-11	3.42E-18	8.67E-33	0.0	0.0
CS135	2.17E-10	2.17E-10	2.17E-10	2.17E-10	2.17E-10	2.17E-10	2.17E-10	2.17E-10	2.17E-10	2.17E-10	2.16E-10
CS137	1.41E-03	1.37E-03	1.34E-03	1.25E-03	1.12E-03	8.86E-04	4.43E-04	1.40E-04	1.38E-05	1.35E-08	1.31E-13
BA137M	4.67E-03	4.61E-03	4.51E-03	4.21E-03	3.75E-03	2.97E-03	1.49E-03	4.69E-04	4.65E-05	4.55E-08	4.38E-13
CE144	5.02E-05	2.06E-05	8.46E-06	5.85E-07	6.82E-09	9.26E-13	2.32E-24	1.07E-43	0.0	0.0	0.0
PR144	5.56E-04	2.28E-04	9.38E-05	6.49E-06	7.56E-08	1.03E-11	2.57E-23	1.19E-42	0.0	0.0	0.0
PR144M	3.14E-07	1.28E-07	5.24E-08	3.62E-09	4.22E-11	5.73E-15	1.44E-26	6.63E-46	0.0	0.0	0.0
PM147	1.75E-07	1.34E-07	1.03E-07	4.66E-08	1.24E-08	8.86E-10	3.21E-13	5.89E-19	1.99E-30	0.0	0.0
SM147	1.59E-16	1.97E-16	2.26E-16	2.79E-16	3.11E-16	3.22E-16	3.23E-16	3.23E-16	3.23E-16	3.23E-16	3.23E-16
SM148	1.23E-35	1.52E-35	1.86E-35	3.05E-35	5.63E-35	1.24E-34	3.92E-34	8.97E-34	1.93E-33	5.02E-33	1.02E-32
EU152	1.58E-06	1.50E-06	1.43E-06	1.22E-06	9.48E-07	5.70E-07	1.24E-07	9.67E-09	5.92E-11	1.36E-17	1.17E-28
EU154	1.04E-06	9.59E-07	8.85E-07	6.95E-07	4.65E-07	2.08E-07	1.85E-08	3.29E-10	1.04E-13	3.31E-24	1.05E-41
EU155	2.95E-08	2.57E-08	2.23E-08	1.47E-08	7.29E-09	1.80E-09	2.73E-11	2.52E-14	2.15E-20	1.34E-38	0.0
GD152	3.49E-20	3.96E-20	4.41E-20	5.63E-20	7.29E-20	9.57E-20	1.23E-19	1.29E-19	1.30E-19	1.30E-19	1.30E-19
TOTAL	2.04E-02	1.59E-02	1.35E-02	1.07E-02	9.10E-03	7.13E-03	3.53E-03	1.09E-03	1.05E-04	1.16E-07	1.06E-08

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	2.79E+11	2.35E+11	2.10E+11	1.71E+11	1.42E+11	1.07E+11	5.19E+10	1.72E+10	3.33E+09	1.17E+09	7.73E+08
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	2.57E-02	2.06E-02	1.78E-02	1.40E-02	1.16E-02	9.14E-03	5.40E-03	2.82E-03	1.53E-03	9.74E-04	6.46E-04

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = VBA - 400 L NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NA 22	1.20E+04	9.20E+03	7.05E+03	3.17E+03	8.37E+02	5.83E+01	1.98E-02	3.25E-08	8.82E-20	0.0	0.0
FE 55	5.60E+08	4.29E+08	3.29E+08	1.48E+08	3.90E+07	2.71E+06	9.13E+02	1.49E-03	3.96E-15	0.0	0.0
CO 60	1.50E+08	1.32E+08	1.15E+08	7.78E+07	4.03E+07	1.08E+07	2.09E+05	2.92E+02	5.68E-04	4.18E-21	0.0
NI 63	5.50E+08	5.46E+08	5.42E+08	5.30E+08	5.10E+08	4.73E+08	3.78E+08	2.59E+08	1.22E+08	1.27E+07	2.95E+05
TOTAL	1.26E+09	1.11E+09	9.86E+08	7.55E+08	5.90E+08	4.87E+08	3.78E+08	2.59E+08	1.22E+08	1.27E+07	2.95E+05

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = VBA - 400 L NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NA 22	4.59E-09	3.52E-09	2.70E-09	1.21E-09	3.20E-10	2.23E-11	7.56E-15	1.24E-20	3.37E-32	0.0	0.0
FE 55	2.08E-05	1.60E-05	1.22E-05	5.49E-06	1.45E-06	1.01E-07	3.39E-11	5.53E-17	1.47E-28	0.0	0.0
CO 60	6.25E-05	5.48E-05	4.81E-05	3.24E-05	1.68E-05	4.51E-06	8.72E-08	1.22E-10	2.37E-16	1.74E-33	0.0
NI 63	5.91E-06	5.86E-06	5.82E-06	5.69E-06	5.48E-06	5.08E-06	4.05E-06	2.78E-06	1.31E-06	1.37E-07	3.16E-09
TOTAL	8.93E-05	7.66E-05	6.61E-05	4.36E-05	2.37E-05	9.69E-06	4.14E-06	2.78E-06	1.31E-06	1.37E-07	3.16E-09

NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = VBA - 400 L NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL208	3.80E+03	2.76E+03	1.92E+03	6.49E+02	1.06E+02	2.83E+00	5.41E-05	7.36E-13	1.36E-28	0.0	0.0
TL209	1.80E-08	2.22E-08	2.73E-08	4.79E-08	1.05E-07	3.38E-07	2.74E-06	1.71E-05	1.18E-04	1.53E-03	1.00E-02
PB209	8.10E-07	1.01E-06	1.24E-06	2.18E-06	4.75E-06	1.54E-05	1.24E-04	7.79E-04	5.35E-03	6.96E-02	4.54E-01
PB210	8.80E+07	9.42E+07	1.00E+08	1.17E+08	1.42E+08	1.81E+08	2.44E+08	2.72E+08	2.69E+08	2.34E+08	1.88E+08
PB212	1.10E+04	7.70E+03	5.36E+03	1.81E+03	2.96E+02	7.90E+00	1.51E-04	2.05E-12	3.80E-28	0.0	0.0
PB214	2.90E+08	2.90E+08	2.90E+08	2.89E+08	2.89E+08	2.88E+08	2.84E+08	2.78E+08	2.66E+08	2.34E+08	1.88E+08
BI210	7.30E+07	9.43E+07	1.00E+08	1.17E+08	1.42E+08	1.81E+08	2.44E+08	2.73E+08	2.69E+08	2.34E+08	1.88E+08
BI212	1.10E+04	7.70E+03	5.36E+03	1.81E+03	2.96E+02	7.90E+00	1.51E-04	2.05E-12	3.80E-28	0.0	0.0
BI213	8.10E-07	1.01E-06	1.24E-06	2.18E-06	4.75E-06	1.54E-05	1.24E-04	7.79E-04	5.35E-03	6.96E-02	4.54E-01
BI214	2.90E+08	2.90E+08	2.90E+08	2.89E+08	2.89E+08	2.88E+08	2.84E+08	2.78E+08	2.66E+08	2.34E+08	1.88E+08
PO210	8.70E+07	9.02E+07	9.58E+07	1.13E+08	1.42E+08	1.81E+08	2.44E+08	2.73E+08	2.69E+08	2.34E+08	1.88E+08
PO212	3.60E+02	4.94E+03	3.44E+03	1.16E+03	1.89E+02	5.06E+00	9.66E-05	1.31E-12	2.44E-28	0.0	0.0
PO213	7.90E-07	9.85E-07	1.21E-06	2.13E-06	4.65E-06	1.50E-05	1.22E-04	7.62E-04	5.24E-03	6.81E-02	4.44E-01
PO214	1.80E+08	2.90E+08	2.90E+08	2.89E+08	2.89E+08	2.88E+08	2.84E+08	2.78E+08	2.66E+08	2.34E+08	1.88E+08
PO216	5.60E+02	7.70E+03	5.36E+03	1.81E+03	2.96E+02	7.90E+00	1.51E-04	2.05E-12	3.80E-28	0.0	0.0
PO218	1.80E+08	2.90E+08	2.90E+08	2.89E+08	2.89E+08	2.88E+08	2.84E+08	2.78E+08	2.66E+08	2.34E+08	1.88E+08
AT217	8.10E-07	1.01E-06	1.24E-06	2.18E-06	4.75E-06	1.54E-05	1.24E-04	7.79E-04	5.35E-03	6.96E-02	4.54E-01
RN220	5.60E+02	7.70E+03	5.36E+03	1.81E+03	2.96E+02	7.90E+00	1.51E-04	2.05E-12	3.80E-28	0.0	0.0
RN222	2.90E+08	2.90E+08	2.90E+08	2.89E+08	2.89E+08	2.88E+08	2.84E+08	2.78E+08	2.66E+08	2.34E+08	1.88E+08
FR221	8.10E-07	1.01E-06	1.24E-06	2.18E-06	4.75E-06	1.54E-05	1.24E-04	7.79E-04	5.35E-03	6.96E-02	4.54E-01
RA224	1.10E+04	7.70E+03	5.36E+03	1.81E+03	2.96E+02	7.90E+00	1.51E-04	2.05E-12	3.80E-28	0.0	0.0
RA225	8.10E-07	1.01E-06	1.24E-06	2.18E-06	4.75E-06	1.54E-05	1.24E-04	7.79E-04	5.35E-03	6.96E-02	4.54E-01
RA226	2.90E+08	2.90E+08	2.90E+08	2.89E+08	2.89E+08	2.88E+08	2.84E+08	2.78E+08	2.66E+08	2.34E+08	1.88E+08
AC225	8.10E-07	1.01E-06	1.24E-06	2.18E-06	4.75E-06	1.54E-05	1.24E-04	7.79E-04	5.35E-03	6.96E-02	4.54E-01
TH228	1.10E+04	7.66E+03	5.33E+03	1.80E+03	2.94E+02	7.85E+00	1.50E-04	2.04E-12	3.78E-28	0.0	0.0
TH229	8.10E-07	1.01E-06	1.24E-06	2.18E-06	4.75E-06	1.54E-05	1.24E-04	7.79E-04	5.35E-03	6.96E-02	4.54E-01
PA233	6.80E+01	7.74E+01	8.68E+01	1.15E+02	1.61E+02	2.53E+02	5.19E+02	9.36E+02	1.68E+03	3.30E+03	4.75E+03
U 233	1.90E-03	2.25E-03	2.65E-03	4.01E-03	7.02E-03	1.61E-02	6.68E-02	2.26E-01	8.01E-01	4.15E+00	1.31E+01
NP237	6.80E+01	7.74E+01	8.68E+01	1.15E+02	1.61E+02	2.53E+02	5.19E+02	9.36E+02	1.68E+03	3.30E+03	4.75E+03
AM241	2.90E+07	2.90E+07	2.89E+07	2.88E+07	2.86E+07	2.81E+07	2.68E+07	2.47E+07	2.11E+07	1.30E+07	5.84E+06
TOTAL	1.80E+09	2.05E+09	2.06E+09	2.11E+09	2.19E+09	2.30E+09	2.46E+09	2.51E+09	2.43E+09	2.12E+09	1.70E+09

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = VBA - 400 L NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL208	2.42E-09	1.76E-09	1.22E-09	4.13E-10	6.75E-11	1.80E-12	3.44E-17	4.68E-25	8.68E-41	0.0	0.0
TL209	8.09E-21	9.95E-21	1.22E-20	2.15E-20	4.70E-20	1.52E-19	1.23E-18	7.70E-18	5.29E-17	6.87E-16	4.49E-15
PB209	2.52E-20	3.13E-20	3.85E-20	6.77E-20	1.48E-19	4.77E-19	3.87E-18	2.42E-17	1.66E-16	2.16E-15	1.41E-14
PB210	5.51E-07	5.90E-07	6.28E-07	7.33E-07	8.88E-07	1.13E-06	1.53E-06	1.71E-06	1.69E-06	1.46E-06	1.18E-06
PB212	5.66E-10	3.96E-10	2.76E-10	9.30E-11	1.52E-11	4.06E-13	7.75E-18	1.06E-25	1.96E-41	0.0	0.0
PB214	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.49E-05	2.48E-05	2.45E-05	2.39E-05	2.29E-05	2.01E-05	1.62E-05
BI210	4.55E-06	5.87E-06	6.25E-06	7.30E-06	8.84E-06	1.13E-05	1.52E-05	1.70E-05	1.68E-05	1.46E-05	1.17E-05
BI212	5.06E-09	3.54E-09	2.46E-09	8.31E-10	1.36E-10	3.63E-12	6.93E-17	9.43E-25	1.75E-40	0.0	0.0
BI213	9.21E-20	1.14E-19	1.41E-19	2.48E-19	5.40E-19	1.75E-18	1.41E-17	8.86E-17	6.08E-16	7.91E-15	5.16E-14
BI214	1.00E-04	1.00E-04	1.00E-04	1.00E-04	1.00E-04	9.96E-05	9.83E-05	9.62E-05	9.22E-05	8.09E-05	6.52E-05
PO210	7.54E-05	7.82E-05	8.30E-05	9.83E-05	1.23E-04	1.57E-04	2.12E-04	2.36E-04	2.33E-04	2.02E-04	1.63E-04
PO212	5.17E-10	7.08E-09	4.93E-09	1.66E-09	2.72E-10	7.26E-12	1.39E-16	1.89E-24	3.49E-40	0.0	0.0
PO213	1.08E-18	1.35E-18	1.66E-18	2.91E-18	6.36E-18	2.05E-17	1.66E-16	1.04E-15	7.16E-15	9.31E-14	6.08E-13
PO214	2.26E-04	3.64E-04	3.64E-04	3.63E-04	3.63E-04	3.61E-04	3.56E-04	3.49E-04	3.34E-04	2.93E-04	2.36E-04
PO216	5.99E-10	8.24E-09	5.74E-09	1.93E-09	3.16E-10	8.45E-12	1.61E-16	2.19E-24	4.06E-40	0.0	0.0
PO218	1.76E-04	2.84E-04	2.84E-04	2.84E-04	2.83E-04	2.82E-04	2.78E-04	2.72E-04	2.61E-04	2.29E-04	1.84E-04
AT217	9.35E-19	1.16E-18	1.43E-18	2.51E-18	5.48E-18	1.77E-17	1.44E-16	8.99E-16	6.18E-15	8.03E-14	5.24E-13
RN220	5.75E-10	7.90E-09	5.50E-09	1.86E-09	3.03E-10	8.10E-12	1.55E-16	2.10E-24	3.90E-40	0.0	0.0
RN222	2.60E-04	2.60E-04	2.60E-04	2.59E-04	2.59E-04	2.58E-04	2.54E-04	2.49E-04	2.38E-04	2.09E-04	1.68E-04
FR221	8.38E-19	1.04E-18	1.28E-18	2.25E-18	4.92E-18	1.59E-17	1.29E-16	8.06E-16	5.54E-15	7.20E-14	4.70E-13
RA224	1.02E-08	7.14E-09	4.97E-09	1.68E-09	2.74E-10	7.32E-12	1.40E-16	1.90E-24	3.52E-40	0.0	0.0
RA225	1.54E-20	1.91E-20	2.35E-20	4.13E-20	9.01E-20	2.91E-19	2.36E-18	1.48E-17	1.01E-16	1.32E-15	8.61E-15
RA226	2.26E-04	2.26E-04	2.26E-04	2.26E-04	2.25E-04	2.24E-04	2.22E-04	2.17E-04	2.08E-04	1.82E-04	1.47E-04
AC225	7.70E-19	9.58E-19	1.18E-18	2.07E-18	4.52E-18	1.46E-17	1.18E-16	7.41E-16	5.09E-15	6.62E-14	4.32E-13
TH228	9.73E-09	6.77E-09	4.72E-09	1.59E-09	2.60E-10	6.95E-12	1.32E-16	1.80E-24	3.34E-40	0.0	0.0
TH229	6.71E-19	8.34E-19	1.03E-18	1.80E-18	3.94E-18	1.27E-17	1.03E-16	6.45E-16	4.43E-15	5.76E-14	3.76E-13
PA233	4.17E-12	4.75E-12	5.32E-12	7.04E-12	9.89E-12	1.55E-11	3.19E-11	5.74E-11	1.03E-10	2.02E-10	2.91E-10
U 233	1.49E-15	1.77E-15	2.08E-15	3.15E-15	5.52E-15	1.26E-14	5.25E-14	1.78E-13	6.30E-13	3.26E-12	1.03E-11
NP237	5.40E-11	6.15E-11	6.89E-11	9.12E-11	1.28E-10	2.01E-10	4.13E-10	7.43E-10	1.33E-09	2.62E-09	3.77E-09
AM241	2.62E-05	2.62E-05	2.61E-05	2.60E-05	2.58E-05	2.54E-05	2.42E-05	2.23E-05	1.90E-05	1.18E-05	5.27E-06
TOTAL	1.12E-03	1.37E-03	1.37E-03	1.39E-03	1.41E-03	1.44E-03	1.49E-03	1.48E-03	1.43E-03	1.24E-03	9.98E-04

FISSION PRODUCTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = VBA - 400 L NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
SR 90	4.90E+07	4.79E+07	4.67E+07	4.35E+07	3.86E+07	3.05E+07	1.49E+07	4.54E+06	4.20E+05	3.33E+02	2.27E-03
Y 90	4.90E+07	4.79E+07	4.68E+07	4.35E+07	3.86E+07	3.05E+07	1.49E+07	4.54E+06	4.20E+05	3.34E+02	2.27E-03
CS134	1.90E+07	1.36E+07	9.71E+06	3.54E+06	6.60E+05	2.29E+04	9.57E-01	4.82E-08	1.22E-22	0.0	0.0
CS137	5.00E+09	4.89E+09	4.78E+09	4.46E+09	3.97E+09	3.15E+09	1.58E+09	4.97E+08	4.93E+07	4.82E+04	4.64E-01
BA137M	4.70E+09	4.62E+09	4.52E+09	4.22E+09	3.76E+09	2.98E+09	1.49E+09	4.70E+08	4.66E+07	4.56E+04	4.39E-01
PM147	5.60E+08	4.30E+08	3.30E+08	1.50E+08	3.99E+07	2.84E+06	1.03E+03	1.89E-03	6.38E-15	0.0	0.0
SM147	2.10E-02	2.42E-02	2.66E-02	3.11E-02	3.38E-02	3.47E-02	3.47E-02	3.47E-02	3.47E-02	3.47E-02	3.47E-02
TOTAL	1.04E+10	1.01E+10	9.73E+09	8.91E+09	7.84E+09	6.20E+09	3.10E+09	9.75E+08	9.67E+07	9.45E+04	9.43E-01

FISSION PRODUCTS

NUCLIDE THERMAL POWER, WATTS
BASIS = VBA - 400 L NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
SR 90	1.54E-06	1.50E-06	1.47E-06	1.37E-06	1.21E-06	9.55E-07	4.68E-07	1.42E-07	1.32E-08	1.05E-11	7.12E-17
Y 90	7.34E-06	7.17E-06	7.00E-06	6.52E-06	5.79E-06	4.56E-06	2.23E-06	6.80E-07	6.30E-08	5.00E-11	3.40E-16
CS134	5.23E-06	3.74E-06	2.67E-06	9.74E-07	1.81E-07	6.30E-09	2.63E-13	1.33E-20	3.36E-35	0.0	0.0
CS137	1.50E-04	1.46E-04	1.43E-04	1.33E-04	1.19E-04	9.42E-05	4.71E-05	1.48E-05	1.47E-06	1.44E-09	1.39E-14
BA137M	4.99E-04	4.91E-04	4.79E-04	4.47E-04	3.99E-04	3.16E-04	1.58E-04	4.98E-05	4.95E-06	4.84E-09	4.66E-14
PM147	5.43E-06	4.17E-06	3.20E-06	1.45E-06	3.87E-07	2.76E-08	9.97E-12	1.83E-17	6.18E-29	0.0	0.0
SM147	7.77E-15	8.95E-15	9.86E-15	1.15E-14	1.25E-14	1.28E-14	1.29E-14	1.29E-14	1.29E-14	1.29E-14	1.29E-14
TOTAL	6.68E-04	6.53E-04	6.37E-04	5.91E-04	5.25E-04	4.16E-04	2.08E-04	6.55E-05	6.50E-06	6.34E-09	7.38E-14

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

RADIOACTIVITY, BECQUEREL

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	1.34E+10	1.32E+10	1.28E+10	1.18E+10	1.06E+10	8.98E+09	5.94E+09	3.74E+09	2.64E+09	2.13E+09	1.70E+09

THERMAL POWER, WATTS

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	1.88E-03	2.10E-03	2.08E-03	2.02E-03	1.96E-03	1.87E-03	1.70E-03	1.55E-03	1.43E-03	1.24E-03	9.98E-04

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = VBA - 400 L SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	1.60E+07	1.60E+07	1.60E+07	1.60E+07	1.60E+07	1.60E+07	1.59E+07	1.58E+07	1.56E+07	1.51E+07	1.42E+07
NA 22	7.40E+03	5.67E+03	4.35E+03	1.95E+03	5.16E+02	3.60E+01	1.22E-02	2.01E-08	5.44E-20	0.0	0.0
CL 36	6.20E+04	6.20E+04	6.20E+04	6.20E+04	6.20E+04	6.20E+04	6.20E+04	6.20E+04	6.20E+04	6.20E+04	6.19E+04
CA 41	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.09E+05
CA 45	6.20E+05	1.31E+05	2.78E+04	2.63E+02	1.11E-01	2.00E-08	1.16E-28	0.0	0.0	0.0	0.0
SC 46	1.90E+02	9.27E+00	4.52E-01	5.25E-05	1.45E-11	1.10E-24	0.0	0.0	0.0	0.0	0.0
MN 54	9.20E+07	4.09E+07	1.82E+07	1.60E+06	2.79E+04	8.49E+00	2.38E-10	6.14E-28	0.0	0.0	0.0
FE 55	2.60E+10	1.99E+10	1.53E+10	6.86E+09	1.81E+09	1.26E+08	4.24E+04	6.91E-02	1.84E-13	0.0	0.0
FE 59	1.00E+04	3.61E+01	1.30E-01	6.11E-09	3.73E-21	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	1.80E+01	5.04E-01	1.41E-02	3.09E-07	5.30E-15	1.56E-30	0.0	0.0	0.0	0.0	0.0
CO 60	8.40E+09	7.37E+09	6.46E+09	4.35E+09	2.26E+09	6.06E+08	1.17E+07	1.63E+04	3.18E-02	2.34E-19	0.0
NI 59	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.49E+07	1.49E+07
NI 63	1.70E+09	1.69E+09	1.68E+09	1.64E+09	1.58E+09	1.46E+09	1.17E+09	8.01E+08	3.77E+08	3.94E+07	9.11E+05
ZN 65	3.10E+07	1.10E+07	3.89E+06	1.73E+05	9.64E+02	2.99E-02	8.98E-16	0.0	0.0	0.0	0.0
TOTAL	3.63E+10	2.91E+10	2.35E+10	1.29E+10	5.67E+09	2.23E+09	1.21E+09	8.32E+08	4.08E+08	6.95E+07	3.01E+07

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = VBA - 400 L SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	1.27E-07	1.27E-07	1.27E-07	1.27E-07	1.27E-07	1.27E-07	1.26E-07	1.25E-07	1.24E-07	1.19E-07	1.12E-07
NA 22	2.83E-09	2.17E-09	1.66E-09	7.47E-10	1.97E-10	1.38E-11	4.66E-15	7.68E-21	2.08E-32	0.0	0.0
CL 36	2.45E-09	2.45E-09	2.45E-09	2.45E-09	2.45E-09	2.45E-09	2.45E-09	2.45E-09	2.45E-09	2.45E-09	2.45E-09
CA 41	7.53E-09	7.53E-09	7.53E-09	7.53E-09	7.53E-09	7.53E-09	7.52E-09	7.52E-09	7.52E-09	7.50E-09	7.46E-09
CA 45	7.67E-09	1.62E-09	3.43E-10	3.25E-12	1.38E-15	2.48E-22	1.44E-42	0.0	0.0	0.0	0.0
SC 46	6.46E-11	3.15E-12	1.54E-13	1.78E-17	4.92E-24	3.75E-37	0.0	0.0	0.0	0.0	0.0
MN 54	1.24E-05	5.51E-06	2.45E-06	2.16E-07	3.76E-09	1.14E-12	3.20E-23	8.26E-41	0.0	0.0	0.0
FE 55	9.67E-04	7.41E-04	5.67E-04	2.55E-04	6.73E-05	4.68E-06	1.58E-09	2.57E-15	6.83E-27	0.0	0.0
FE 59	2.52E-09	9.09E-12	3.28E-14	1.54E-21	9.41E-34	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	2.91E-12	8.15E-14	2.28E-15	5.00E-20	8.57E-28	2.52E-43	0.0	0.0	0.0	0.0	0.0
CO 60	3.50E-03	3.07E-03	2.69E-03	1.81E-03	9.40E-04	2.52E-04	4.88E-06	6.81E-09	1.32E-14	9.75E-32	0.0
NI 59	2.58E-06	2.58E-06	2.58E-06	2.58E-06	2.58E-06	2.58E-06	2.58E-06	2.58E-06	2.58E-06	2.57E-06	2.56E-06
NI 63	1.83E-05	1.81E-05	1.80E-05	1.76E-05	1.69E-05	1.57E-05	1.25E-05	8.60E-06	4.05E-06	4.22E-07	9.77E-09
ZN 65	2.94E-06	1.04E-06	3.68E-07	1.64E-08	9.13E-11	2.84E-15	8.51E-29	0.0	0.0	0.0	0.0
TOTAL	4.50E-03	3.84E-03	3.28E-03	2.09E-03	1.03E-03	2.75E-04	2.01E-05	1.13E-05	6.76E-06	3.12E-06	2.69E-06

NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = VBA - 400 L SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	5.00E-06	5.95E-06	6.97E-06	1.04E-05	1.71E-05	3.41E-05	1.02E-04	2.41E-04	5.43E-04	1.61E-03	3.38E-03
TL208	1.50E-02	2.55E-02	2.74E-02	2.97E-02	2.96E-02	2.71E-02	2.03E-02	1.25E-02	4.79E-03	2.67E-04	2.24E-06
TL209	4.00E-09	4.73E-09	5.55E-09	8.24E-09	1.36E-08	2.74E-08	9.69E-08	3.26E-07	1.35E-06	1.13E-05	6.10E-05
PB209	1.80E-07	2.15E-07	2.52E-07	3.75E-07	6.16E-07	1.24E-06	4.41E-06	1.48E-05	6.14E-05	5.13E-04	2.77E-03
PB210	4.80E-08	6.30E-08	8.14E-08	1.64E-07	4.40E-07	2.00E-06	2.87E-05	2.60E-04	2.18E-03	3.07E-02	1.42E-01
PB211	5.00E-06	5.97E-06	6.99E-06	1.04E-05	1.72E-05	3.42E-05	1.03E-04	2.42E-04	5.45E-04	1.61E-03	3.39E-03
PB212	4.30E-02	7.10E-02	7.62E-02	8.27E-02	8.24E-02	7.54E-02	5.65E-02	3.49E-02	1.33E-02	7.43E-04	6.23E-06
PB214	4.70E-07	5.98E-07	7.37E-07	1.31E-06	2.98E-06	1.03E-05	8.69E-05	5.25E-04	3.22E-03	3.07E-02	1.42E-01
BI210	4.80E-08	6.30E-08	8.14E-08	1.64E-07	4.40E-07	2.00E-06	2.87E-05	2.60E-04	2.18E-03	3.07E-02	1.42E-01
BI211	5.00E-06	5.97E-06	6.99E-06	1.04E-05	1.72E-05	3.42E-05	1.03E-04	2.42E-04	5.45E-04	1.61E-03	3.39E-03
BI212	4.30E-02	7.10E-02	7.62E-02	8.27E-02	8.24E-02	7.54E-02	5.65E-02	3.49E-02	1.33E-02	7.43E-04	6.23E-06
BI213	1.80E-07	2.15E-07	2.52E-07	3.75E-07	6.16E-07	1.24E-06	4.41E-06	1.48E-05	6.14E-05	5.13E-04	2.77E-03
BI214	4.70E-07	5.98E-07	7.37E-07	1.31E-06	2.98E-06	1.03E-05	8.69E-05	5.25E-04	3.22E-03	3.07E-02	1.42E-01
PO210	4.80E-08	5.65E-08	6.93E-08	1.44E-07	4.40E-07	2.00E-06	2.87E-05	2.60E-04	2.18E-03	3.07E-02	1.42E-01
PO211	1.50E-08	1.79E-08	2.10E-08	3.12E-08	5.16E-08	1.02E-07	3.08E-07	7.26E-07	1.64E-06	4.84E-06	1.02E-05
PO212	2.80E-02	4.55E-02	4.88E-02	5.30E-02	5.28E-02	4.84E-02	3.62E-02	2.24E-02	8.55E-03	4.76E-04	3.99E-06
PO213	1.80E-07	2.10E-07	2.47E-07	3.66E-07	6.03E-07	1.22E-06	4.31E-06	1.45E-05	6.01E-05	5.01E-04	2.71E-03
PO214	4.70E-07	5.98E-07	7.37E-07	1.31E-06	2.98E-06	1.03E-05	8.69E-05	5.25E-04	3.22E-03	3.07E-02	1.42E-01
PO215	5.00E-06	5.97E-06	6.99E-06	1.04E-05	1.72E-05	3.42E-05	1.03E-04	2.42E-04	5.45E-04	1.61E-03	3.39E-03
PO216	4.30E-02	7.10E-02	7.62E-02	8.27E-02	8.24E-02	7.54E-02	5.65E-02	3.49E-02	1.33E-02	7.43E-04	6.23E-06
PO218	4.70E-07	5.98E-07	7.37E-07	1.31E-06	2.98E-06	1.03E-05	8.69E-05	5.25E-04	3.22E-03	3.07E-02	1.42E-01
AT217	1.80E-07	2.15E-07	2.52E-07	3.75E-07	6.16E-07	1.24E-06	4.41E-06	1.48E-05	6.14E-05	5.13E-04	2.77E-03
RN219	5.00E-06	5.97E-06	6.99E-06	1.04E-05	1.72E-05	3.42E-05	1.03E-04	2.42E-04	5.45E-04	1.61E-03	3.39E-03
RN220	4.30E-02	7.10E-02	7.62E-02	8.27E-02	8.24E-02	7.54E-02	5.65E-02	3.49E-02	1.33E-02	7.43E-04	6.23E-06
RN222	4.80E-07	5.98E-07	7.37E-07	1.31E-06	2.98E-06	1.03E-05	8.69E-05	5.25E-04	3.22E-03	3.07E-02	1.42E-01
FR221	1.80E-07	2.15E-07	2.52E-07	3.75E-07	6.16E-07	1.24E-06	4.41E-06	1.48E-05	6.14E-05	5.13E-04	2.77E-03
FR223	7.00E-08	8.34E-08	9.77E-08	1.46E-07	2.40E-07	4.78E-07	1.44E-06	3.39E-06	7.63E-06	2.26E-05	4.74E-05
RA223	5.00E-06	5.97E-06	6.99E-06	1.04E-05	1.72E-05	3.42E-05	1.03E-04	2.42E-04	5.45E-04	1.61E-03	3.39E-03
RA224	4.30E-02	7.10E-02	7.62E-02	8.27E-02	8.24E-02	7.54E-02	5.65E-02	3.49E-02	1.33E-02	7.43E-04	6.23E-06
RA225	1.80E-07	2.15E-07	2.52E-07	3.75E-07	6.16E-07	1.24E-06	4.41E-06	1.48E-05	6.14E-05	5.13E-04	2.77E-03
RA226	4.80E-07	5.98E-07	7.37E-07	1.31E-06	2.98E-06	1.03E-05	8.69E-05	5.25E-04	3.22E-03	3.07E-02	1.42E-01
RA228	5.50E-10	5.50E-10	5.50E-10	8.72E-10	1.46E-09	2.78E-09	7.13E-09	1.45E-08	3.18E-08	8.46E-08	1.91E-07
AC225	1.80E-07	2.15E-07	2.52E-07	3.75E-07	6.16E-07	1.24E-06	4.41E-06	1.48E-05	6.14E-05	5.13E-04	2.77E-03
AC227	5.00E-06	5.96E-06	6.98E-06	1.04E-05	1.72E-05	3.41E-05	1.03E-04	2.42E-04	5.45E-04	1.61E-03	3.39E-03
AC228	5.00E-10	5.50E-10	5.50E-10	8.72E-10	1.46E-09	2.78E-09	7.13E-09	1.45E-08	3.18E-08	8.46E-08	1.91E-07
TH227	5.00E-06	5.89E-06	6.89E-06	1.03E-05	1.70E-05	3.37E-05	1.01E-04	2.39E-04	5.37E-04	1.59E-03	3.34E-03
TH228	6.30E-02	7.08E-02	7.59E-02	8.25E-02	8.23E-02	7.54E-02	5.65E-02	3.49E-02	1.33E-02	7.43E-04	6.23E-06
TH229	1.80E-07	2.15E-07	2.52E-07	3.75E-07	6.16E-07	1.24E-06	4.41E-06	1.48E-05	6.14E-05	5.13E-04	2.77E-03
TH230	2.50E-04	2.96E-04	3.49E-04	5.50E-04	1.02E-03	2.45E-03	1.02E-02	3.24E-02	9.88E-02	3.61E-01	8.30E-01
TH231	1.40E-01	1.40E-01	1.40E-01	1.40E-01	1.40E-01	1.41E-01	1.42E-01	1.44E-01	1.48E-01	1.60E-01	1.80E-01
TH232	1.30E-09	1.44E-09	1.59E-09	2.02E-09	2.74E-09	4.18E-09	8.57E-09	1.61E-08	3.18E-08	8.46E-08	1.91E-07
TH234	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00
PA231	3.40E-05	3.70E-05	4.00E-05	4.89E-05	6.37E-05	9.35E-05	1.83E-04	3.34E-04	6.42E-04	1.61E-03	3.38E-03
PA233	4.30E+00	4.33E+00	4.36E+00	4.45E+00	4.61E+00	4.95E+00	6.05E+00	7.85E+00	1.11E+01	1.82E+01	2.45E+01
PA234M	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00
PA234	4.40E-03	4.42E-03	4.42E-03	4.42E-03	4.42E-03	4.42E-03	4.42E-03	4.42E-03	4.42E-03	4.42E-03	4.42E-03
U 232	8.90E-02	8.82E-02	8.73E-02	8.49E-02	8.09E-02	7.34E-02	5.50E-02	3.40E-02	1.30E-02	7.24E-04	5.88E-06
U 233	3.60E-04	3.81E-04	4.02E-04	4.62E-04	5.61E-04	7.70E-04	1.49E-03	3.01E-03	7.16E-03	2.67E-02	7.42E-02
U 234	4.70E+00	5.49E+00	6.28E+00	8.60E+00	1.23E+01	1.94E+01	3.76E+01	5.97E+01	8.46E+01	1.03E+02	1.05E+02

U 235	1.40E-01	1.40E-01	1.40E-01	1.40E-01	1.40E-01	1.41E-01	1.42E-01	1.44E-01	1.48E-01	1.60E-01	1.80E-01
U 236	2.90E+00	2.90E+00	2.91E+00	2.91E+00	2.92E+00	2.94E+00	3.00E+00	3.09E+00	3.29E+00	3.85E+00	4.74E+00
U 237	9.70E+00	2.63E+01	2.50E+01	2.17E+01	1.70E+01	1.05E+01	2.48E+00	2.24E-01	1.82E-03	9.76E-10	3.46E-20
U 238	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00
U 240	3.50E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06
NP237	4.30E+00	4.33E+00	4.36E+00	4.45E+00	4.61E+00	4.95E+00	6.05E+00	7.85E+00	1.11E+01	1.82E+01	2.45E+01
NP238	1.30E-01	2.59E-01	2.58E-01	2.54E-01	2.49E-01	2.37E-01	2.07E-01	1.65E-01	1.05E-01	2.66E-02	2.72E-03
NP239	1.50E+02	3.00E+02	3.00E+02	3.00E+02	3.00E+02	3.00E+02	2.99E+02	2.97E+02	2.95E+02	2.86E+02	2.73E+02
NP240M	3.50E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06
PU238	2.80E+05	2.78E+05	2.76E+05	2.70E+05	2.59E+05	2.40E+05	1.89E+05	1.27E+05	5.78E+04	5.42E+03	1.05E+02
PU239	4.10E+04	4.10E+04	4.10E+04	4.10E+04	4.10E+04	4.10E+04	4.10E+04	4.09E+04	4.08E+04	4.04E+04	3.99E+04
PU240	6.50E+04	6.50E+04	6.51E+04	6.51E+04	6.52E+04	6.52E+04	6.52E+04	6.49E+04	6.43E+04	6.23E+04	5.90E+04
PU241	1.10E+06	1.05E+06	9.99E+05	8.65E+05	6.80E+05	4.20E+05	9.92E+04	8.94E+03	7.27E+01	3.90E-05	1.38E-15
PU242	2.90E+01	2.90E+01	2.90E+01	2.90E+01	2.90E+01	2.90E+01	2.90E+01	2.90E+01	2.90E+01	2.90E+01	2.90E+01
PU244	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06	7.30E-06
AM241	8.90E+04	9.06E+04	9.21E+04	9.61E+04	1.02E+05	1.08E+05	1.14E+05	1.08E+05	9.21E+04	5.70E+04	2.55E+04
AM242M	5.20E+01	5.18E+01	5.15E+01	5.08E+01	4.97E+01	4.75E+01	4.14E+01	3.30E+01	2.09E+01	5.32E+00	5.45E-01
AM242	2.50E+01	5.15E+01	5.13E+01	5.06E+01	4.95E+01	4.73E+01	4.12E+01	3.28E+01	2.08E+01	5.30E+00	5.42E-01
AM243	3.00E+02	3.00E+02	3.00E+02	3.00E+02	3.00E+02	3.00E+02	2.99E+02	2.97E+02	2.95E+02	2.86E+02	2.73E+02
CM242	9.20E+04	1.95E+04	4.18E+03	8.14E+01	4.09E+01	3.91E+01	3.41E+01	2.71E+01	1.72E+01	4.38E+00	4.48E-01
CM243	2.00E+02	1.95E+02	1.91E+02	1.77E+02	1.57E+02	1.23E+02	5.93E+01	1.76E+01	1.55E+00	1.05E-03	5.51E-09
CM244	2.20E+05	2.12E+05	2.04E+05	1.82E+05	1.50E+05	1.02E+05	3.25E+04	4.79E+03	1.04E+02	1.08E-03	5.30E-12
TOTAL	1.89E+06	1.76E+06	1.68E+06	1.52E+06	1.30E+06	9.78E+05	5.42E+05	3.56E+05	2.56E+05	1.66E+05	1.25E+05

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = VBA - 400 L SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	3.97E-19	4.72E-19	5.53E-19	8.24E-19	1.36E-18	2.70E-18	8.11E-18	1.92E-17	4.31E-17	1.28E-16	2.68E-16
TL208	9.54E-15	1.62E-14	1.74E-14	1.89E-14	1.88E-14	1.72E-14	1.29E-14	7.98E-15	3.05E-15	1.70E-16	1.42E-18
TL209	1.80E-21	2.13E-21	2.49E-21	3.70E-21	6.09E-21	1.23E-20	4.35E-20	1.47E-19	6.07E-19	5.06E-18	2.74E-17
PB209	5.60E-21	6.69E-21	7.84E-21	1.16E-20	1.92E-20	3.86E-20	1.37E-19	4.61E-19	1.91E-18	1.59E-17	8.62E-17
PB210	3.01E-22	3.94E-22	5.10E-22	1.03E-21	2.75E-21	1.25E-20	1.80E-19	1.63E-18	1.37E-17	1.92E-16	8.91E-16
PB211	4.05E-19	4.83E-19	5.66E-19	8.43E-19	1.39E-18	2.77E-18	8.30E-18	1.96E-17	4.41E-17	1.31E-16	2.74E-16
PB212	2.21E-15	3.65E-15	3.92E-15	4.25E-15	4.24E-15	3.88E-15	2.91E-15	1.80E-15	6.87E-16	3.83E-17	3.21E-19
PB214	4.05E-20	5.15E-20	6.35E-20	1.13E-19	2.57E-19	8.84E-19	7.49E-18	4.53E-17	2.77E-16	2.65E-15	1.23E-14
BI210	2.99E-21	3.93E-21	5.07E-21	1.02E-20	2.74E-20	1.25E-19	1.79E-18	1.62E-17	1.36E-16	1.92E-15	8.87E-15
BI211	5.39E-18	6.44E-18	7.54E-18	1.12E-17	1.85E-17	3.68E-17	1.11E-16	2.61E-16	5.88E-16	1.74E-15	3.65E-15
BI212	1.98E-14	3.26E-14	3.50E-14	3.80E-14	3.79E-14	3.47E-14	2.60E-14	1.61E-14	6.13E-15	3.42E-16	2.86E-18
BI213	2.05E-20	2.44E-20	2.87E-20	4.26E-20	7.00E-20	1.41E-19	5.01E-19	1.69E-18	6.98E-18	5.82E-17	3.15E-16
BI214	1.63E-19	2.07E-19	2.55E-19	4.55E-19	1.03E-18	3.55E-18	3.01E-17	1.82E-16	1.11E-15	1.06E-14	4.93E-14
PO210	4.16E-20	4.89E-20	6.01E-20	1.25E-19	3.81E-19	1.73E-18	2.49E-17	2.25E-16	1.89E-15	2.66E-14	1.23E-13
PO211	1.83E-20	2.18E-20	2.55E-20	3.80E-20	6.28E-20	1.25E-19	3.74E-19	8.84E-19	1.99E-18	5.89E-18	1.24E-17
PO212	4.02E-14	6.53E-14	7.01E-14	7.60E-14	7.58E-14	6.94E-14	5.20E-14	3.21E-14	1.23E-14	6.84E-16	5.73E-18
PO213	2.46E-19	2.88E-19	3.37E-19	5.01E-19	8.24E-19	1.66E-18	5.89E-18	1.98E-17	8.22E-17	6.85E-16	3.71E-15
PO214	5.90E-19	7.51E-19	9.25E-19	1.65E-18	3.74E-18	1.29E-17	1.09E-16	6.59E-16	4.04E-15	3.86E-14	1.79E-13
PO215	6.03E-18	7.20E-18	8.43E-18	1.26E-17	2.07E-17	4.12E-17	1.24E-16	2.92E-16	6.57E-16	1.95E-15	4.08E-15
PO216	4.60E-14	7.60E-14	8.15E-14	8.84E-14	8.81E-14	8.07E-14	6.05E-14	3.74E-14	1.43E-14	7.95E-16	6.67E-18
PO218	4.60E-19	5.86E-19	7.22E-19	1.29E-18	2.92E-18	1.00E-17	8.51E-17	5.14E-16	3.15E-15	3.01E-14	1.39E-13
AT217	2.08E-19	2.48E-19	2.91E-19	4.32E-19	7.11E-19	1.43E-18	5.08E-18	1.71E-17	7.09E-17	5.91E-16	3.20E-15
RN219	5.57E-18	6.64E-18	7.78E-18	1.16E-17	1.91E-17	3.80E-17	1.14E-16	2.69E-16	6.07E-16	1.80E-15	3.77E-15
RN220	4.41E-14	7.29E-14	7.82E-14	8.48E-14	8.45E-14	7.74E-14	5.80E-14	3.58E-14	1.37E-14	7.63E-16	6.39E-18
RN222	4.30E-19	5.36E-19	6.60E-19	1.18E-18	2.67E-18	9.18E-18	7.78E-17	4.70E-16	2.88E-15	2.75E-14	1.27E-13
FR221	1.86E-19	2.23E-19	2.61E-19	3.88E-19	6.38E-19	1.29E-18	4.56E-18	1.54E-17	6.36E-17	5.30E-16	2.87E-15
FR223	4.92E-21	5.85E-21	6.86E-21	1.02E-20	1.69E-20	3.35E-20	1.01E-19	2.38E-19	5.36E-19	1.59E-18	3.33E-18
RA223	4.79E-18	5.72E-18	6.70E-18	9.97E-18	1.65E-17	3.27E-17	9.82E-17	2.32E-16	5.22E-16	1.55E-15	3.24E-15
RA224	3.99E-14	6.59E-14	7.07E-14	7.67E-14	7.64E-14	7.00E-14	5.24E-14	3.24E-14	1.24E-14	6.89E-16	5.78E-18
RA225	3.41E-21	4.08E-21	4.78E-21	7.10E-21	1.17E-20	2.36E-20	8.35E-20	2.81E-19	1.16E-18	9.71E-18	5.25E-17
RA226	3.75E-19	4.67E-19	5.75E-19	1.02E-18	2.33E-18	8.00E-18	6.78E-17	4.10E-16	2.51E-15	2.40E-14	1.11E-13
RA228	1.15E-24	1.15E-24	1.15E-24	1.82E-24	3.05E-24	5.79E-24	1.48E-23	3.02E-23	6.63E-23	1.76E-22	3.97E-22
AC225	1.71E-19	2.05E-19	2.40E-19	3.56E-19	5.86E-19	1.18E-18	4.19E-18	1.41E-17	5.84E-17	4.87E-16	2.64E-15
AC227	6.55E-20	7.80E-20	9.13E-20	1.36E-19	2.25E-19	4.47E-19	1.34E-18	3.17E-18	7.13E-18	2.11E-17	4.43E-17
AC228	1.17E-22	1.29E-22	1.29E-22	2.04E-22	3.42E-22	6.49E-22	1.67E-21	3.39E-21	7.43E-21	1.98E-20	4.45E-20
TH227	4.93E-18	5.80E-18	6.79E-18	1.01E-17	1.67E-17	3.32E-17	9.96E-17	2.35E-16	5.29E-16	1.57E-15	3.29E-15
TH228	5.57E-14	6.26E-14	6.72E-14	7.30E-14	7.28E-14	6.67E-14	5.00E-14	3.09E-14	1.18E-14	6.57E-16	5.51E-18
TH229	1.49E-19	1.78E-19	2.09E-19	3.10E-19	5.10E-19	1.03E-18	3.65E-18	1.23E-17	5.09E-17	4.24E-16	2.30E-15
TH230	1.91E-16	2.26E-16	2.67E-16	4.20E-16	7.81E-16	1.88E-15	7.83E-15	2.48E-14	7.55E-14	2.76E-13	6.34E-13
TH231	2.12E-15	2.13E-15	2.13E-15	2.13E-15	2.13E-15	2.14E-15	2.16E-15	2.19E-15	2.25E-15	2.43E-15	2.73E-15
TH232	8.50E-22	9.44E-22	1.04E-21	1.32E-21	1.79E-21	2.73E-21	5.61E-21	1.05E-20	2.08E-20	5.53E-20	1.25E-19
TH234	3.73E-14	3.73E-14	3.73E-14	3.73E-14	3.73E-14	3.73E-14	3.73E-14	3.73E-14	3.73E-14	3.73E-14	3.73E-14
PA231	2.81E-17	3.05E-17	3.30E-17	4.03E-17	5.26E-17	7.71E-17	1.51E-16	2.76E-16	5.30E-16	1.33E-15	2.79E-15
PA233	2.64E-13	2.66E-13	2.68E-13	2.73E-13	2.83E-13	3.04E-13	3.71E-13	4.81E-13	6.80E-13	1.12E-12	1.50E-12
PA234M	4.54E-13	4.54E-13	4.54E-13	4.54E-13	4.54E-13	4.54E-13	4.54E-13	4.54E-13	4.54E-13	4.54E-13	4.54E-13
PA234	1.71E-15	1.72E-15	1.72E-15	1.72E-15	1.72E-15	1.72E-15	1.72E-15	1.72E-15	1.72E-15	1.72E-15	1.72E-15
U 232	7.72E-14	7.65E-14	7.58E-14	7.36E-14	7.01E-14	6.37E-14	4.77E-14	2.95E-14	1.13E-14	6.28E-16	5.10E-18
U 233	2.83E-16	3.00E-16	3.16E-16	3.63E-16	4.41E-16	6.05E-16	1.17E-15	2.37E-15	5.63E-15	2.10E-14	5.84E-14
U 234	3.66E-12	4.27E-12	4.88E-12	6.69E-12	9.61E-12	1.51E-11	2.92E-11	4.64E-11	6.58E-11	8.04E-11	8.18E-11

U 235	1.05E-13	1.05E-13	1.05E-13	1.05E-13	1.05E-13	1.06E-13	1.07E-13	1.08E-13	1.11E-13	1.20E-13	1.35E-13
U 236	2.12E-12	2.13E-12	2.13E-12	2.13E-12	2.14E-12	2.15E-12	2.19E-12	2.27E-12	2.41E-12	2.82E-12	3.47E-12
U 237	4.96E-13	1.34E-12	1.28E-12	1.11E-12	8.71E-13	5.38E-13	1.27E-13	1.14E-14	9.30E-17	4.99E-23	1.77E-33
U 238	2.33E-12	2.33E-12	2.33E-12	2.33E-12	2.33E-12	2.33E-12	2.33E-12	2.33E-12	2.33E-12	2.33E-12	2.33E-12
U 240	7.76E-20	1.62E-19	1.62E-19	1.62E-19	1.62E-19	1.62E-19	1.62E-19	1.62E-19	1.62E-19	1.62E-19	1.62E-19
NP237	3.42E-12	3.44E-12	3.46E-12	3.54E-12	3.66E-12	3.93E-12	4.80E-12	6.23E-12	8.80E-12	1.44E-11	1.95E-11
NP238	1.68E-14	3.35E-14	3.34E-14	3.29E-14	3.22E-14	3.07E-14	2.68E-14	2.13E-14	1.35E-14	3.45E-15	3.53E-16
NP239	9.80E-12	1.96E-11	1.96E-11	1.96E-11	1.96E-11	1.96E-11	1.95E-11	1.94E-11	1.92E-11	1.87E-11	1.79E-11
NP240M	5.48E-19	1.14E-18	1.14E-18	1.14E-18	1.14E-18	1.14E-18	1.14E-18	1.14E-18	1.14E-18	1.14E-18	1.14E-18
PU238	2.51E-07	2.49E-07	2.47E-07	2.42E-07	2.32E-07	2.15E-07	1.69E-07	1.14E-07	5.18E-08	4.85E-09	9.43E-11
PU239	3.45E-08	3.45E-08	3.45E-08	3.45E-08	3.44E-08	3.44E-08	3.44E-08	3.44E-08	3.43E-08	3.40E-08	3.35E-08
PU240	5.48E-08	5.48E-08	5.48E-08	5.48E-08	5.49E-08	5.49E-08	5.49E-08	5.47E-08	5.41E-08	5.24E-08	4.97E-08
PU241	9.17E-10	8.74E-10	8.33E-10	7.21E-10	5.67E-10	3.50E-10	8.26E-11	7.45E-12	6.05E-14	3.25E-20	1.15E-30
PU242	2.32E-11	2.32E-11	2.32E-11	2.32E-11	2.32E-11	2.32E-11	2.32E-11	2.32E-11	2.32E-11	2.31E-11	2.31E-11
PU244	5.72E-18	5.72E-18	5.72E-18	5.72E-18	5.72E-18	5.72E-18	5.72E-18	5.72E-18	5.72E-18	5.72E-18	5.72E-18
AM241	8.04E-08	8.18E-08	8.32E-08	8.68E-08	9.17E-08	9.80E-08	1.03E-07	9.74E-08	8.32E-08	5.14E-08	2.31E-08
AM242M	5.55E-13	5.53E-13	5.50E-13	5.43E-13	5.30E-13	5.07E-13	4.42E-13	3.52E-13	2.23E-13	5.68E-14	5.81E-15
AM242	7.85E-13	1.62E-12	1.61E-12	1.59E-12	1.55E-12	1.48E-12	1.29E-12	1.03E-12	6.53E-13	1.66E-13	1.70E-14
AM243	2.62E-10	2.61E-10	2.61E-10	2.61E-10	2.61E-10	2.61E-10	2.60E-10	2.59E-10	2.57E-10	2.50E-10	2.38E-10
CM242	9.17E-08	1.95E-08	4.16E-09	8.10E-11	4.08E-11	3.89E-11	3.39E-11	2.70E-11	1.71E-11	4.36E-12	4.47E-13
CM243	1.98E-10	1.94E-10	1.89E-10	1.76E-10	1.56E-10	1.22E-10	5.88E-11	1.74E-11	1.53E-12	1.04E-15	5.47E-21
CM244	2.08E-07	2.00E-07	1.93E-07	1.72E-07	1.42E-07	9.68E-08	3.07E-08	4.53E-09	9.88E-11	1.02E-15	5.01E-24
TOTAL	7.22E-07	6.42E-07	6.18E-07	5.91E-07	5.56E-07	5.00E-07	3.93E-07	3.06E-07	2.24E-07	1.43E-07	1.07E-07

NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = VBA - 400 L SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	9.50E+06	8.99E+06	8.50E+06	7.18E+06	5.42E+06	3.09E+06	5.75E+05	3.47E+04	1.27E+02	6.20E-06	4.04E-18
SR 90	7.70E+08	7.52E+08	7.35E+08	6.84E+08	6.07E+08	4.79E+08	2.34E+08	7.13E+07	6.60E+06	5.24E+03	3.56E-02
Y 90	7.70E+08	7.52E+08	7.35E+08	6.84E+08	6.07E+08	4.79E+08	2.34E+08	7.13E+07	6.60E+06	5.24E+03	3.57E-02
ZR 93	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03
NB 93M	1.80E+06	1.71E+06	1.63E+06	1.40E+06	1.08E+06	6.51E+05	1.42E+05	1.24E+04	1.49E+03	1.43E+03	1.42E+03
NB 94	1.30E+03	1.30E+03	1.30E+03	1.30E+03	1.30E+03	1.30E+03	1.30E+03	1.30E+03	1.29E+03	1.28E+03	1.26E+03
TC 99	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.10E+06
RU106	5.00E+06	2.52E+06	1.26E+06	1.61E+05	5.17E+03	5.34E+00	5.90E-09	6.95E-24	0.0	0.0	0.0
RH106	5.00E+06	2.52E+06	1.26E+06	1.61E+05	5.17E+03	5.34E+00	5.90E-09	6.95E-24	0.0	0.0	0.0
PD107	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01
AG108	1.20E+05	1.59E+05	1.59E+05	1.56E+05	1.52E+05	1.44E+05	1.22E+05	9.29E+04	5.38E+04	1.05E+04	6.84E+02
AG108M	1.80E+06	1.79E+06	1.78E+06	1.75E+06	1.71E+06	1.61E+06	1.37E+06	1.04E+06	6.05E+05	1.18E+05	7.69E+03
AG110	3.00E+02	4.20E+05	1.53E+05	7.31E+03	4.62E+01	1.84E-03	1.17E-16	0.0	0.0	0.0	0.0
AG110M	8.70E+07	3.16E+07	1.15E+07	5.50E+05	3.47E+03	1.39E-01	8.80E-15	0.0	0.0	0.0	0.0
SN126	5.70E+03	5.70E+03	5.70E+03	5.70E+03	5.70E+03	5.70E+03	5.70E+03	5.70E+03	5.69E+03	5.68E+03	5.66E+03
SB125	1.70E+08	1.32E+08	1.03E+08	4.85E+07	1.38E+07	1.12E+06	6.01E+02	2.13E-03	2.66E-14	0.0	0.0
SB126	4.30E+02	7.98E+02	7.98E+02	7.98E+02	7.98E+02	7.98E+02	7.98E+02	7.98E+02	7.97E+02	7.96E+02	7.93E+02
SB126M	3.00E+03	5.70E+03	5.70E+03	5.70E+03	5.70E+03	5.70E+03	5.70E+03	5.70E+03	5.69E+03	5.68E+03	5.66E+03
TE125M	1.50E+08	3.37E+07	2.51E+07	1.18E+07	3.37E+06	2.74E+05	1.47E+02	5.19E-04	6.49E-15	0.0	0.0
I 129	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04
CS134	1.50E+09	1.07E+09	7.66E+08	2.80E+08	5.21E+07	1.81E+06	7.56E+01	3.81E-06	9.65E-21	0.0	0.0
CS135	4.60E+04	4.60E+04	4.60E+04	4.60E+04	4.60E+04	4.60E+04	4.60E+04	4.60E+04	4.60E+04	4.60E+04	4.60E+04
CS137	9.70E+09	9.48E+09	9.27E+09	8.65E+09	7.70E+09	6.11E+09	3.06E+09	9.63E+08	9.56E+07	9.35E+04	9.01E-01
BA137M	9.40E+09	8.97E+09	8.77E+09	8.18E+09	7.29E+09	5.78E+09	2.89E+09	9.11E+08	9.04E+07	8.85E+04	8.52E-01
CE144	8.70E+07	3.57E+07	1.47E+07	1.01E+06	1.18E+04	1.61E+00	4.02E-12	1.86E-31	0.0	0.0	0.0
PR144	8.70E+07	3.57E+07	1.47E+07	1.01E+06	1.18E+04	1.61E+00	4.02E-12	1.86E-31	0.0	0.0	0.0
PR144M	1.00E+06	4.29E+05	1.76E+05	1.22E+04	1.42E+02	1.93E-02	4.83E-14	2.23E-33	0.0	0.0	0.0
ND144	3.80E-08	5.70E-08	6.49E-08	6.99E-08	7.03E-08	7.03E-08	7.03E-08	7.03E-08	7.03E-08	7.03E-08	7.03E-08
PM147	3.50E+07	2.69E+07	2.06E+07	9.35E+06	2.49E+06	1.78E+05	6.43E+01	1.18E-04	3.99E-16	0.0	0.0
SM147	8.10E-04	1.01E-03	1.16E-03	1.44E-03	1.61E-03	1.66E-03	1.67E-03	1.67E-03	1.67E-03	1.67E-03	1.67E-03
SM148	9.80E-23	1.22E-22	1.49E-22	2.46E-22	4.55E-22	1.00E-21	3.16E-21	7.25E-21	1.56E-20	4.06E-20	8.22E-20
EU152	2.00E+07	1.90E+07	1.81E+07	1.55E+07	1.20E+07	7.22E+06	1.57E+06	1.23E+05	7.51E+02	1.73E-04	1.49E-15
EU154	8.10E+06	7.48E+06	6.90E+06	5.42E+06	3.62E+06	1.62E+06	1.44E+05	2.57E+03	8.12E-01	2.58E-11	8.20E-29
EU155	2.90E+06	2.52E+06	2.19E+06	1.44E+06	7.17E+05	1.77E+05	2.68E+03	2.48E+00	2.11E-06	1.32E-24	0.0
GD152	2.60E-07	2.95E-07	3.28E-07	4.18E-07	5.40E-07	7.09E-07	9.07E-07	9.58E-07	9.62E-07	9.62E-07	9.62E-07
TOTAL	2.28E+10	2.14E+10	2.05E+10	1.86E+10	1.63E+10	1.29E+10	6.42E+09	2.02E+09	2.01E+08	1.49E+06	1.18E+06

NUCLIDE THERMAL POWER, WATTS
BASIS = VBA - 400 L SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	8.68E-09	8.21E-09	7.76E-09	6.56E-09	4.95E-09	2.83E-09	5.25E-10	3.17E-11	1.16E-13	5.66E-21	3.69E-33
SR 90	2.42E-05	2.36E-05	2.30E-05	2.15E-05	1.90E-05	1.50E-05	7.35E-06	2.24E-06	2.07E-07	1.64E-10	1.12E-15
Y 90	1.15E-04	1.13E-04	1.10E-04	1.02E-04	9.10E-05	7.17E-05	3.51E-05	1.07E-05	9.89E-07	7.85E-10	5.34E-15
ZR 93	4.71E-12	4.71E-12	4.71E-12	4.71E-12	4.71E-12	4.71E-12	4.71E-12	4.71E-12	4.71E-12	4.71E-12	4.71E-12
NB 93M	8.63E-09	8.20E-09	7.79E-09	6.69E-09	5.19E-09	3.12E-09	6.81E-10	5.96E-11	7.15E-12	6.83E-12	6.83E-12
NB 94	3.58E-10	3.58E-10	3.58E-10	3.58E-10	3.58E-10	3.58E-10	3.58E-10	3.57E-10	3.56E-10	3.52E-10	3.46E-10
TC 99	1.49E-08	1.49E-08	1.49E-08	1.49E-08	1.49E-08	1.49E-08	1.49E-08	1.49E-08	1.49E-08	1.49E-08	1.49E-08
RU106	8.01E-09	4.03E-09	2.03E-09	2.58E-10	8.28E-12	8.56E-15	9.45E-24	1.11E-38	0.0	0.0	0.0
RH106	1.30E-06	6.52E-07	3.28E-07	4.17E-08	1.34E-09	1.38E-12	1.53E-21	1.80E-36	0.0	0.0	0.0
PD107	1.76E-14	1.76E-14	1.76E-14	1.76E-14	1.76E-14	1.76E-14	1.76E-14	1.76E-14	1.76E-14	1.76E-14	1.76E-14
AG108	1.21E-08	1.61E-08	1.60E-08	1.57E-08	1.53E-08	1.45E-08	1.23E-08	9.35E-09	5.42E-09	1.05E-09	6.89E-11
AG108M	4.73E-07	4.71E-07	4.68E-07	4.61E-07	4.48E-07	4.24E-07	3.60E-07	2.74E-07	1.59E-07	3.09E-08	2.02E-09
AG110	5.83E-11	8.16E-08	2.96E-08	1.42E-09	8.97E-12	3.58E-16	2.27E-29	0.0	0.0	0.0	0.0
AG110M	3.93E-05	1.43E-05	5.18E-06	2.48E-07	1.57E-09	6.25E-14	3.97E-27	0.0	0.0	0.0	0.0
SN126	1.92E-10	1.92E-10	1.92E-10	1.92E-10	1.92E-10	1.92E-10	1.92E-10	1.92E-10	1.92E-10	1.92E-10	1.91E-10
SB125	1.44E-05	1.12E-05	8.70E-06	4.10E-06	1.17E-06	9.48E-08	5.08E-11	1.80E-16	2.25E-27	0.0	0.0
SB126	2.15E-10	3.99E-10	3.99E-10	3.99E-10	3.99E-10	3.99E-10	3.99E-10	3.98E-10	3.98E-10	3.97E-10	3.96E-10
SB126M	1.03E-09	1.96E-09	1.96E-09	1.96E-09	1.96E-09	1.96E-09	1.96E-09	1.96E-09	1.96E-09	1.96E-09	1.95E-09
TE125M	3.41E-06	7.65E-07	5.71E-07	2.69E-07	7.66E-08	6.22E-09	3.33E-12	1.18E-17	1.47E-28	0.0	0.0
I 129	1.25E-10	1.25E-10	1.25E-10	1.25E-10	1.25E-10	1.25E-10	1.25E-10	1.25E-10	1.25E-10	1.25E-10	1.25E-10
CS134	4.13E-04	2.95E-04	2.11E-04	7.69E-05	1.43E-05	4.97E-07	2.08E-11	1.05E-18	2.65E-33	0.0	0.0
CS135	4.15E-10	4.15E-10	4.15E-10	4.15E-10	4.15E-10	4.15E-10	4.15E-10	4.15E-10	4.15E-10	4.15E-10	4.15E-10
CS137	2.90E-04	2.83E-04	2.77E-04	2.58E-04	2.30E-04	1.83E-04	9.14E-05	2.88E-05	2.86E-06	2.80E-09	2.69E-14
BA137M	9.98E-04	9.52E-04	9.30E-04	8.68E-04	7.73E-04	6.14E-04	3.07E-04	9.67E-05	9.60E-06	9.39E-09	9.04E-14
CE144	1.56E-06	6.40E-07	2.63E-07	1.82E-08	2.12E-10	2.88E-14	7.21E-26	3.33E-45	0.0	0.0	0.0
PR144	1.73E-05	7.10E-06	2.91E-06	2.02E-07	2.35E-09	3.19E-13	7.99E-25	3.69E-44	0.0	0.0	0.0
PR144M	9.25E-09	3.96E-09	1.63E-09	1.13E-10	1.31E-12	1.78E-16	4.46E-28	2.06E-47	0.0	0.0	0.0
PM147	3.39E-07	2.61E-07	2.00E-07	9.06E-08	2.42E-08	1.72E-09	6.23E-13	1.15E-18	3.86E-30	0.0	0.0
SM147	3.00E-16	3.74E-16	4.30E-16	5.33E-16	5.95E-16	6.16E-16	6.18E-16	6.18E-16	6.18E-16	6.18E-16	6.18E-16
SM148	3.16E-35	3.94E-35	4.81E-35	7.95E-35	1.47E-34	3.23E-34	1.02E-33	2.34E-33	5.02E-33	1.31E-32	2.65E-32
EU152	4.10E-06	3.90E-06	3.70E-06	3.18E-06	2.46E-06	1.48E-06	3.21E-07	2.51E-08	1.54E-10	3.54E-17	3.05E-28
EU154	1.96E-06	1.81E-06	1.67E-06	1.31E-06	8.75E-07	3.91E-07	3.49E-08	6.20E-10	1.96E-13	6.23E-24	1.98E-41
EU155	5.70E-08	4.96E-08	4.31E-08	2.84E-08	1.41E-08	3.49E-09	5.27E-11	4.87E-14	4.16E-20	2.59E-38	0.0
GD152	9.16E-20	1.04E-19	1.16E-19	1.47E-19	1.90E-19	2.50E-19	3.19E-19	3.37E-19	3.39E-19	3.39E-19	3.39E-19
TOTAL	1.92E-03	1.71E-03	1.58E-03	1.34E-03	1.13E-03	8.86E-04	4.42E-04	1.39E-04	1.38E-05	6.35E-08	2.04E-08

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	5.91E+10	5.04E+10	4.40E+10	3.15E+10	2.20E+10	1.51E+10	7.63E+09	2.85E+09	6.09E+08	7.12E+07	3.14E+07
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	6.43E-03	5.55E-03	4.86E-03	3.43E-03	2.16E-03	1.16E-03	4.62E-04	1.50E-04	2.08E-05	3.33E-06	2.82E-06

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = DWK - VBA - 400 NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = DWK - VBA - 400 NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = DWK - VBA - 400 NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	0.0	2.72E-06	1.08E-05	6.55E-05	2.49E-04	9.02E-04	4.32E-03	1.21E-02	2.92E-02	8.65E-02	1.73E-01
TL208	2.40E+11	0.0	5.38E-14	1.14E-09	6.66E-09	2.63E-08	1.15E-07	2.57E-07	5.70E-07	1.44E-06	2.92E-06
TL209	0.0	4.16E-08	8.33E-08	2.14E-07	5.00E-07	2.06E-06	3.96E-05	4.35E-04	4.25E-03	7.00E-02	4.96E-01
PB209	0.0	1.89E-06	3.79E-06	9.71E-06	2.27E-05	9.36E-05	1.80E-03	1.98E-02	1.93E-01	3.18E+00	2.25E+01
PB210	0.0	8.55E-10	7.30E-09	1.26E-07	1.15E-06	1.11E-05	2.37E-04	2.33E-03	2.00E-02	2.84E-01	1.32E+00
PB211	0.0	2.73E-06	1.08E-05	6.57E-05	2.50E-04	9.05E-04	4.34E-03	1.21E-02	2.93E-02	8.68E-02	1.73E-01
PB212	0.0	0.0	1.50E-13	3.17E-09	1.85E-08	7.33E-08	3.19E-07	7.15E-07	1.59E-06	4.00E-06	8.12E-06
PB214	0.0	8.86E-08	3.73E-07	2.69E-06	1.31E-05	7.02E-05	7.49E-04	4.76E-03	2.96E-02	2.84E-01	1.32E+00
BI210	0.0	8.55E-10	7.30E-09	1.26E-07	1.15E-06	1.11E-05	2.37E-04	2.33E-03	2.00E-02	2.84E-01	1.32E+00
BI211	0.0	2.73E-06	1.08E-05	6.57E-05	2.50E-04	9.05E-04	4.34E-03	1.21E-02	2.93E-02	8.68E-02	1.73E-01
BI212	0.0	0.0	1.50E-13	3.17E-09	1.85E-08	7.33E-08	3.19E-07	7.15E-07	1.59E-06	4.00E-06	8.12E-06
BI213	0.0	1.89E-06	3.79E-06	9.71E-06	2.27E-05	9.36E-05	1.80E-03	1.98E-02	1.93E-01	3.18E+00	2.25E+01
BI214	0.0	8.86E-08	3.73E-07	2.69E-06	1.31E-05	7.02E-05	7.49E-04	4.76E-03	2.96E-02	2.84E-01	1.32E+00
PO210	0.0	0.0	3.21E-11	8.97E-08	1.15E-06	1.11E-05	2.37E-04	2.33E-03	2.00E-02	2.84E-01	1.32E+00
PO211	0.0	8.20E-09	3.25E-08	1.97E-07	7.49E-07	2.71E-06	1.30E-05	3.64E-05	8.78E-05	2.60E-04	5.20E-04
PO212	1.20E+08	0.0	9.61E-14	2.03E-09	1.19E-08	4.70E-08	2.05E-07	4.58E-07	1.02E-06	2.57E-06	5.21E-06
PO213	0.0	1.85E-06	3.70E-06	9.49E-06	2.22E-05	9.15E-05	1.76E-03	1.93E-02	1.89E-01	3.11E+00	2.20E+01
PO214	0.0	8.86E-08	3.73E-07	2.69E-06	1.31E-05	7.02E-05	7.49E-04	4.76E-03	2.96E-02	2.84E-01	1.32E+00
PO215	0.0	2.73E-06	1.08E-05	6.57E-05	2.50E-04	9.05E-04	4.34E-03	1.21E-02	2.93E-02	8.68E-02	1.73E-01
PO216	0.0	0.0	1.50E-13	3.17E-09	1.85E-08	7.33E-08	3.19E-07	7.15E-07	1.59E-06	4.00E-06	8.12E-06
PO218	0.0	8.86E-08	3.73E-07	2.69E-06	1.31E-05	7.02E-05	7.49E-04	4.76E-03	2.96E-02	2.84E-01	1.32E+00
AT217	0.0	1.89E-06	3.79E-06	9.71E-06	2.27E-05	9.36E-05	1.80E-03	1.98E-02	1.93E-01	3.18E+00	2.25E+01
RN219	0.0	2.73E-06	1.08E-05	6.57E-05	2.50E-04	9.05E-04	4.34E-03	1.21E-02	2.93E-02	8.68E-02	1.73E-01
RN220	0.0	0.0	1.50E-13	3.17E-09	1.85E-08	7.33E-08	3.19E-07	7.15E-07	1.59E-06	4.00E-06	8.12E-06
RN222	0.0	8.86E-08	3.73E-07	2.69E-06	1.31E-05	7.02E-05	7.49E-04	4.76E-03	2.96E-02	2.84E-01	1.32E+00
FR221	0.0	1.89E-06	3.79E-06	9.71E-06	2.27E-05	9.36E-05	1.80E-03	1.98E-02	1.93E-01	3.18E+00	2.25E+01
FR223	0.0	3.82E-08	1.52E-07	9.19E-07	3.49E-06	1.27E-05	6.07E-05	1.70E-04	4.10E-04	1.21E-03	2.43E-03
RA223	0.0	2.73E-06	1.08E-05	6.57E-05	2.50E-04	9.05E-04	4.34E-03	1.21E-02	2.93E-02	8.68E-02	1.73E-01
RA224	0.0	0.0	1.50E-13	3.17E-09	1.85E-08	7.33E-08	3.19E-07	7.15E-07	1.59E-06	4.00E-06	8.12E-06
RA225	0.0	1.89E-06	3.79E-06	9.71E-06	2.27E-05	9.36E-05	1.80E-03	1.98E-02	1.93E-01	3.18E+00	2.25E+01
RA226	0.0	8.86E-08	3.73E-07	2.69E-06	1.31E-05	7.02E-05	7.49E-04	4.76E-03	2.96E-02	2.84E-01	1.32E+00
RA228	0.0	4.08E-10	1.55E-09	8.65E-09	2.96E-08	9.12E-08	3.19E-07	7.15E-07	1.59E-06	4.00E-06	8.12E-06
AC225	0.0	1.89E-06	3.79E-06	9.71E-06	2.27E-05	9.36E-05	1.80E-03	1.98E-02	1.93E-01	3.18E+00	2.25E+01
AC227	0.0	2.73E-06	1.08E-05	6.57E-05	2.49E-04	9.04E-04	4.34E-03	1.21E-02	2.93E-02	8.68E-02	1.73E-01
AC228	0.0	4.08E-10	1.55E-09	8.65E-09	2.96E-08	9.12E-08	3.19E-07	7.15E-07	1.59E-06	4.00E-06	8.12E-06
TH227	0.0	2.69E-06	1.07E-05	6.48E-05	2.46E-04	8.92E-04	4.28E-03	1.20E-02	2.89E-02	8.55E-02	1.71E-01
TH228	0.0	0.0	1.49E-13	3.17E-09	1.85E-08	7.33E-08	3.19E-07	7.15E-07	1.59E-06	4.00E-06	8.12E-06
TH229	0.0	1.89E-06	3.79E-06	9.71E-06	2.27E-05	9.36E-05	1.80E-03	1.98E-02	1.93E-01	3.18E+00	2.25E+01
TH230	0.0	4.20E-04	9.06E-04	2.75E-03	7.10E-03	2.03E-02	9.24E-02	2.98E-01	9.12E-01	3.34E+00	7.69E+00
TH231	0.0	8.20E+00	8.20E+00	8.20E+00	8.21E+00	8.21E+00	8.21E+00	8.22E+00	8.24E+00	8.29E+00	8.37E+00
TH232	0.0	7.89E-09	1.58E-08	3.95E-08	7.90E-08	1.58E-07	3.95E-07	7.92E-07	1.59E-06	4.00E-06	8.12E-06
TH234	0.0	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02
PA231	0.0	1.74E-04	3.48E-04	8.69E-04	1.74E-03	3.47E-03	8.68E-03	1.74E-02	3.47E-02	8.67E-02	1.73E-01
PA233	0.0	1.24E+01	4.80E+01	2.83E+02	1.04E+03	3.59E+03	1.53E+04	3.77E+04	7.89E+04	1.70E+05	2.50E+05
PA234M	0.0	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02
PA234	0.0	2.08E-01	2.08E-01	2.08E-01	2.08E-01	2.08E-01	2.08E-01	2.08E-01	2.08E-01	2.08E-01	2.08E-01
U 233	2.00E-02	2.00E-02	2.02E-02	2.21E-02	3.57E-02	1.32E-01	1.33E+00	7.11E+00	3.28E+01	2.00E+02	6.70E+02
U 234	4.30E+01	5.04E+01	5.76E+01	7.92E+01	1.14E+02	1.79E+02	3.48E+02	5.53E+02	7.84E+02	9.58E+02	9.74E+02
U 235	8.20E+00	8.20E+00	8.20E+00	8.20E+00	8.21E+00	8.21E+00	8.21E+00	8.22E+00	8.24E+00	8.29E+00	8.37E+00

U 236	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.61E+02	1.61E+02	1.62E+02	1.65E+02	1.69E+02
U 237	0.0	1.12E+06	1.07E+06	9.25E+05	7.27E+05	4.50E+05	1.06E+05	9.56E+03	7.77E+01	4.17E-05	1.48E-15	
U 238	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02
NP237	0.0	1.24E+01	4.80E+01	2.83E+02	1.04E+03	3.59E+03	1.53E+04	3.77E+04	7.89E+04	1.70E+05	2.50E+05	
PU238	2.60E+06	2.58E+06	2.56E+06	2.50E+06	2.40E+06	2.22E+06	1.75E+06	1.18E+06	5.36E+05	5.01E+04	9.67E+02	
PU239	1.70E+05	1.70E+05	1.70E+05	1.70E+05	1.70E+05	1.70E+05	1.70E+05	1.70E+05	1.69E+05	1.68E+05	1.65E+05	
PU240	3.20E+05	3.20E+05	3.20E+05	3.20E+05	3.20E+05	3.19E+05	3.18E+05	3.17E+05	3.13E+05	3.04E+05	2.88E+05	
PU241	4.70E+10	4.48E+10	4.27E+10	3.70E+10	2.91E+10	1.80E+10	4.24E+09	3.82E+08	3.10E+06	1.67E+00	5.90E-11	
AM241	3.30E+02	7.35E+07	1.44E+08	3.34E+08	5.93E+08	9.50E+08	1.35E+09	1.37E+09	1.18E+09	7.27E+08	3.26E+08	
CM244	1.50E+03	1.44E+03	1.39E+03	1.24E+03	1.02E+03	6.98E+02	2.21E+02	3.27E+01	7.12E-01	7.36E-06	3.61E-14	
TOTAL	2.87E+11	4.49E+10	4.29E+10	3.73E+10	2.97E+10	1.89E+10	5.59E+09	1.75E+09	1.18E+09	7.28E+08	3.27E+08	

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = DWK - VBA - 400 NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	0.0	2.16E-19	8.58E-19	5.20E-18	1.97E-17	7.16E-17	3.43E-16	9.60E-16	2.32E-15	6.87E-15	1.37E-14
TL208	1.53E-01	0.0	3.42E-26	7.24E-22	4.24E-21	1.67E-20	7.29E-20	1.63E-19	3.63E-19	9.14E-19	1.85E-18
TL209	0.0	1.87E-20	3.74E-20	9.59E-20	2.25E-19	9.24E-19	1.78E-17	1.95E-16	1.91E-15	3.14E-14	2.23E-13
PB209	0.0	5.87E-20	1.18E-19	3.02E-19	7.07E-19	2.91E-18	5.59E-17	6.14E-16	6.01E-15	9.88E-14	7.00E-13
PB210	0.0	5.36E-24	4.57E-23	7.91E-22	7.18E-21	6.94E-20	1.49E-18	1.46E-17	1.25E-16	1.78E-15	8.25E-15
PB211	0.0	2.21E-19	8.78E-19	5.32E-18	2.02E-17	7.33E-17	3.51E-16	9.82E-16	2.37E-15	7.03E-15	1.40E-14
PB212	0.0	0.0	7.71E-27	1.63E-22	9.54E-22	3.77E-21	1.64E-20	3.68E-20	8.17E-20	2.06E-19	4.18E-19
PB214	0.0	7.64E-21	3.22E-20	2.32E-19	1.13E-18	6.05E-18	6.46E-17	4.10E-16	2.55E-15	2.45E-14	1.14E-13
BI210	0.0	5.33E-23	4.55E-22	7.87E-21	7.14E-20	6.90E-19	1.48E-17	1.45E-16	1.25E-15	1.77E-14	8.21E-14
BI211	0.0	2.95E-18	1.17E-17	7.08E-17	2.69E-16	9.75E-16	4.68E-15	1.31E-14	3.15E-14	9.35E-14	1.87E-13
BI212	0.0	0.0	6.89E-26	1.46E-21	8.53E-21	3.37E-20	1.47E-19	3.29E-19	7.30E-19	1.84E-18	3.73E-18
BI213	0.0	2.15E-19	4.30E-19	1.10E-18	2.58E-18	1.06E-17	2.04E-16	2.25E-15	2.20E-14	3.61E-13	2.56E-12
BI214	0.0	3.07E-20	1.29E-19	9.31E-19	4.52E-18	2.43E-17	2.59E-16	1.65E-15	1.02E-14	9.84E-14	4.56E-13
PO210	0.0	0.0	2.78E-23	7.77E-20	9.93E-19	9.59E-18	2.06E-16	2.02E-15	1.74E-14	2.46E-13	1.14E-12
PO211	0.0	9.97E-21	3.96E-20	2.40E-19	9.11E-19	3.30E-18	1.58E-17	4.43E-17	1.07E-16	3.17E-16	6.33E-16
PO212	1.72E-04	0.0	1.38E-25	2.91E-21	1.71E-20	6.74E-20	2.94E-19	6.58E-19	1.46E-18	3.68E-18	7.47E-18
PO213	0.0	2.53E-18	5.06E-18	1.30E-17	3.04E-17	1.25E-16	2.41E-15	2.64E-14	2.59E-13	4.25E-12	3.01E-11
PO214	0.0	1.11E-19	4.69E-19	3.37E-18	1.64E-17	8.81E-17	9.40E-16	5.97E-15	3.71E-14	3.57E-13	1.65E-12
PO215	0.0	3.29E-18	1.31E-17	7.92E-17	3.01E-16	1.09E-15	5.23E-15	1.46E-14	3.53E-14	1.05E-13	2.09E-13
PO216	0.0	0.0	1.60E-25	3.39E-21	1.98E-20	7.85E-20	3.42E-19	7.65E-19	1.70E-18	4.28E-18	8.69E-18
PO218	0.0	8.68E-20	3.66E-19	2.63E-18	1.28E-17	6.88E-17	7.34E-16	4.66E-15	2.90E-14	2.78E-13	1.29E-12
AT217	0.0	2.18E-18	4.37E-18	1.12E-17	2.62E-17	1.08E-16	2.07E-15	2.28E-14	2.23E-13	3.67E-12	2.60E-11
RN219	0.0	3.04E-18	1.21E-17	7.31E-17	2.78E-16	1.01E-15	4.83E-15	1.35E-14	3.26E-14	9.66E-14	1.93E-13
RN220	0.0	0.0	1.54E-25	3.25E-21	1.90E-20	7.52E-20	3.28E-19	7.34E-19	1.63E-18	4.11E-18	8.33E-18
RN222	0.0	7.94E-20	3.34E-19	2.41E-18	1.17E-17	6.29E-17	6.71E-16	4.26E-15	2.65E-14	2.54E-13	1.18E-12
FR221	0.0	1.96E-18	3.92E-18	1.00E-17	2.35E-17	9.68E-17	1.86E-15	2.05E-14	2.00E-13	3.29E-12	2.33E-11
FR223	0.0	2.68E-21	1.06E-20	6.45E-20	2.45E-19	8.88E-19	4.26E-18	1.19E-17	2.88E-17	8.53E-17	1.70E-16
RA223	0.0	2.62E-18	1.04E-17	6.29E-17	2.39E-16	8.67E-16	4.15E-15	1.16E-14	2.80E-14	8.31E-14	1.66E-13
RA224	0.0	0.0	1.39E-25	2.94E-21	1.72E-20	6.80E-20	2.96E-19	6.63E-19	1.47E-18	3.71E-18	7.53E-18
RA225	0.0	3.58E-20	7.17E-20	1.84E-19	4.31E-19	1.77E-18	3.41E-17	3.75E-16	3.66E-15	6.03E-14	4.27E-13
RA226	0.0	6.91E-20	2.91E-19	2.10E-18	1.02E-17	5.48E-17	5.84E-16	3.71E-15	2.31E-14	2.22E-13	1.03E-12
RA228	0.0	8.50E-25	3.23E-24	1.80E-23	6.17E-23	1.90E-22	6.65E-22	1.49E-21	3.31E-21	8.34E-21	1.69E-20
AC225	0.0	1.80E-18	3.60E-18	9.23E-18	2.16E-17	8.90E-17	1.71E-15	1.88E-14	1.84E-13	3.02E-12	2.14E-11
AC227	0.0	3.58E-20	1.42E-19	8.59E-19	3.27E-18	1.18E-17	5.68E-17	1.59E-16	3.83E-16	1.14E-15	2.27E-15
AC228	0.0	9.54E-23	3.62E-22	2.02E-21	6.92E-21	2.13E-20	7.46E-20	1.67E-19	3.71E-19	9.35E-19	1.90E-18
TH227	0.0	2.65E-18	1.05E-17	6.38E-17	2.42E-16	8.78E-16	4.21E-15	1.18E-14	2.84E-14	8.42E-14	1.68E-13
TH228	0.0	0.0	1.32E-25	2.80E-21	1.64E-20	6.48E-20	2.82E-19	6.32E-19	1.40E-18	3.54E-18	7.18E-18
TH229	0.0	1.56E-18	3.13E-18	8.04E-18	1.88E-17	7.75E-17	1.49E-15	1.64E-14	1.60E-13	2.63E-12	1.87E-11
TH230	0.0	3.21E-16	6.93E-16	2.11E-15	5.43E-15	1.55E-14	7.06E-14	2.28E-13	6.97E-13	2.56E-12	5.87E-12
TH231	0.0	1.24E-13	1.24E-13	1.24E-13	1.24E-13	1.25E-13	1.25E-13	1.25E-13	1.25E-13	1.26E-13	1.27E-13
TH232	0.0	5.16E-21	1.03E-20	2.58E-20	5.16E-20	1.03E-19	2.58E-19	5.18E-19	1.04E-18	2.62E-18	5.31E-18
TH234	0.0	1.75E-12	1.75E-12	1.75E-12	1.75E-12	1.75E-12	1.75E-12	1.75E-12	1.75E-12	1.75E-12	1.75E-12
PA231	0.0	1.43E-16	2.87E-16	7.17E-16	1.43E-15	2.86E-15	7.16E-15	1.43E-14	2.86E-14	7.15E-14	1.43E-13
PA233	0.0	7.59E-13	2.94E-12	1.74E-11	6.40E-11	2.20E-10	9.39E-10	2.31E-09	4.84E-09	1.04E-08	1.54E-08
PA234M	0.0	2.14E-11	2.14E-11	2.14E-11	2.14E-11	2.14E-11	2.14E-11	2.14E-11	2.14E-11	2.14E-11	2.14E-11
PA234	0.0	8.08E-14	8.08E-14	8.08E-14	8.08E-14	8.08E-14	8.08E-14	8.08E-14	8.08E-14	8.08E-14	8.08E-14
U 233	1.57E-14	1.58E-14	1.59E-14	1.74E-14	2.81E-14	1.04E-13	1.04E-12	5.59E-12	2.58E-11	1.58E-10	5.27E-10
U 234	3.35E-11	3.92E-11	4.48E-11	6.16E-11	8.86E-11	1.40E-10	2.70E-10	4.30E-10	6.10E-10	7.45E-10	7.58E-10
U 235	6.15E-12	6.15E-12	6.15E-12	6.15E-12	6.15E-12	6.15E-12	6.16E-12	6.16E-12	6.17E-12	6.21E-12	6.27E-12

U 236	1.17E-10	1.17E-10	1.17E-10	1.17E-10	1.17E-10	1.17E-10	1.17E-10	1.18E-10	1.18E-10	1.19E-10	1.21E-10	1.24E-10
U 237	0.0	5.74E-08	5.47E-08	4.73E-08	3.72E-08	2.30E-08	5.43E-09	4.89E-10	3.97E-12	2.13E-18	7.56E-29	
U 238	1.09E-10	1.09E-10	1.09E-10	1.09E-10	1.09E-10	1.09E-10	1.09E-10	1.09E-10	1.09E-10	1.09E-10	1.09E-10	1.09E-10
NP237	0.0	9.82E-12	3.81E-11	2.25E-10	8.29E-10	2.85E-09	1.21E-08	2.99E-08	6.26E-08	1.35E-07	1.99E-07	
PU238	2.33E-06	2.31E-06	2.29E-06	2.24E-06	2.15E-06	1.99E-06	1.57E-06	1.06E-06	4.80E-07	4.49E-08	8.66E-10	
PU239	1.43E-07	1.43E-07	1.43E-07	1.43E-07	1.43E-07	1.43E-07	1.43E-07	1.42E-07	1.42E-07	1.41E-07	1.39E-07	
PU240	2.70E-07	2.70E-07	2.70E-07	2.69E-07	2.69E-07	2.69E-07	2.68E-07	2.67E-07	2.64E-07	2.56E-07	2.42E-07	
PU241	3.92E-05	3.73E-05	3.56E-05	3.08E-05	2.42E-05	1.50E-05	3.53E-06	3.18E-07	2.59E-09	1.39E-15	4.92E-26	
AM241	2.98E-10	6.64E-05	1.30E-04	3.01E-04	5.36E-04	8.58E-04	1.22E-03	1.23E-03	1.06E-03	6.57E-04	2.95E-04	
CM244	1.42E-09	1.37E-09	1.31E-09	1.17E-09	9.68E-10	6.60E-10	2.09E-10	3.09E-11	6.73E-13	6.96E-18	3.41E-26	
TOTAL	1.53E-01	1.07E-04	1.68E-04	3.35E-04	5.63E-04	8.76E-04	1.22E-03	1.24E-03	1.06E-03	6.57E-04	2.95E-04	

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = DWK - VBA - 400 NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
SR 90	7.30E+10	7.13E+10	6.96E+10	6.48E+10	5.76E+10	4.54E+10	2.22E+10	6.76E+09	6.26E+08	4.97E+05	3.38E+00
Y 90	7.30E+10	7.13E+10	6.97E+10	6.49E+10	5.76E+10	4.54E+10	2.22E+10	6.76E+09	6.26E+08	4.97E+05	3.38E+00
ZR 93	7.50E+04	7.50E+04	7.50E+04	7.50E+04	7.50E+04	7.50E+04	7.50E+04	7.50E+04	7.50E+04	7.50E+04	7.50E+04
NB 93M	2.50E+04	2.73E+04	2.95E+04	3.54E+04	4.35E+04	5.46E+04	6.77E+04	7.10E+04	7.13E+04	7.13E+04	7.12E+04
TC 99	5.50E+05	5.50E+05	5.50E+05	5.50E+05	5.50E+05	5.50E+05	5.50E+05	5.50E+05	5.50E+05	5.49E+05	5.48E+05
RU106	4.30E+08	2.16E+08	1.09E+08	1.38E+07	4.45E+05	4.59E+02	5.07E-07	5.98E-22	0.0	0.0	0.0
RH106	4.30E+08	2.16E+08	1.09E+08	1.38E+07	4.45E+05	4.59E+02	5.07E-07	5.98E-22	0.0	0.0	0.0
AG110	0.0	9.18E+02	3.33E+02	1.60E+01	1.01E-01	4.02E-06	2.56E-19	0.0	0.0	0.0	0.0
AG110M	1.90E+05	6.90E+04	2.51E+04	1.20E+03	7.58E+00	3.03E-04	1.92E-17	0.0	0.0	0.0	0.0
SN126	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.39E+04	2.38E+04
SB125	7.10E+07	5.53E+07	4.30E+07	2.02E+07	5.77E+06	4.69E+05	2.51E+02	8.88E-04	1.11E-14	0.0	0.0
SB126	0.0	3.36E+03	3.36E+03	3.36E+03	3.36E+03	3.36E+03	3.36E+03	3.36E+03	3.36E+03	3.35E+03	3.34E+03
SB126M	0.0	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.40E+04	2.39E+04	2.38E+04
TE125M	2.80E+07	1.36E+07	1.05E+07	4.94E+06	1.41E+06	1.14E+05	6.13E+01	2.17E-04	2.71E-15	0.0	0.0
I 129	4.70E+08	4.70E+08	4.70E+08	4.70E+08	4.70E+08	4.70E+08	4.70E+08	4.70E+08	4.70E+08	4.70E+08	4.70E+08
CS134	1.10E+09	7.86E+08	5.62E+08	2.05E+08	3.82E+07	1.33E+06	5.54E+01	2.79E-06	7.08E-21	0.0	0.0
CS135	1.10E+04	1.10E+04	1.10E+04	1.10E+04	1.10E+04	1.10E+04	1.10E+04	1.10E+04	1.10E+04	1.10E+04	1.10E+04
CS137	2.70E+11	2.64E+11	2.58E+11	2.41E+11	2.14E+11	1.70E+11	8.51E+10	2.68E+10	2.66E+09	2.60E+06	2.51E+01
BA137M	2.50E+11	2.50E+11	2.44E+11	2.28E+11	2.03E+11	1.61E+11	8.05E+10	2.54E+10	2.52E+09	2.46E+06	2.37E+01
CE144	9.40E+07	3.86E+07	1.58E+07	1.10E+06	1.28E+04	1.73E+00	4.34E-12	2.01E-31	0.0	0.0	0.0
PR144	9.40E+07	3.86E+07	1.58E+07	1.10E+06	1.28E+04	1.73E+00	4.34E-12	2.01E-31	0.0	0.0	0.0
PR144M	1.10E+06	4.63E+05	1.90E+05	1.32E+04	1.53E+02	2.08E-02	5.21E-14	2.41E-33	0.0	0.0	0.0
ND144	0.0	2.06E-08	2.90E-08	3.45E-08	3.49E-08	3.49E-08	3.49E-08	3.49E-08	3.49E-08	3.49E-08	3.49E-08
PM147	5.90E+08	4.53E+08	3.48E+08	1.58E+08	4.21E+07	3.00E+06	1.08E+03	1.99E-03	6.72E-15	0.0	0.0
SM147	0.0	3.36E-03	5.94E-03	1.06E-02	1.34E-02	1.44E-02	1.45E-02	1.45E-02	1.45E-02	1.45E-02	1.45E-02
SM148	0.0	0.0	0.0	4.69E-25	1.99E-24	6.95E-24	2.99E-23	7.56E-23	1.70E-22	4.52E-22	9.24E-22
EU152	3.10E+05	2.95E+05	2.80E+05	2.40E+05	1.86E+05	1.12E+05	2.43E+04	1.90E+03	1.16E+01	2.67E-06	2.31E-17
EU154	2.50E+08	2.31E+08	2.13E+08	1.67E+08	1.12E+08	4.99E+07	4.45E+06	7.92E+04	2.51E+01	7.96E-10	2.53E-27
EU155	2.40E+07	2.09E+07	1.82E+07	1.19E+07	5.94E+06	1.47E+06	2.22E+04	2.05E+01	1.75E-05	1.09E-23	0.0
GD152	0.0	5.41E-10	1.05E-09	2.45E-09	4.34E-09	6.95E-09	1.00E-08	1.08E-08	1.09E-08	1.09E-08	1.09E-08
TOTAL	6.70E+11	6.59E+11	6.43E+11	5.99E+11	5.33E+11	4.22E+11	2.11E+11	6.62E+10	6.90E+09	4.77E+08	4.71E+08

FISSION PRODUCTS

NUCLIDE THERMAL POWER, WATTS
BASIS = DWK - VBA - 400 NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
SR 90	2.29E-03	2.24E-03	2.18E-03	2.03E-03	1.81E-03	1.42E-03	6.97E-04	2.12E-04	1.96E-05	1.56E-08	1.06E-13
Y 90	1.09E-02	1.07E-02	1.04E-02	9.71E-03	8.63E-03	6.80E-03	3.33E-03	1.01E-03	9.38E-05	7.44E-08	5.06E-13
ZR 93	2.36E-10	2.36E-10	2.36E-10	2.36E-10	2.36E-10	2.36E-10	2.36E-10	2.36E-10	2.36E-10	2.36E-10	2.35E-10
NB 93M	1.20E-10	1.31E-10	1.41E-10	1.70E-10	2.08E-10	2.61E-10	3.24E-10	3.40E-10	3.41E-10	3.41E-10	3.41E-10
TC 99	7.46E-09	7.46E-09	7.46E-09	7.46E-09	7.46E-09	7.46E-09	7.46E-09	7.46E-09	7.45E-09	7.45E-09	7.43E-09
RU106	6.89E-07	3.47E-07	1.74E-07	2.22E-08	7.12E-10	7.36E-13	8.12E-22	9.58E-37	0.0	0.0	0.0
RH106	1.12E-04	5.61E-05	2.82E-05	3.58E-06	1.15E-07	1.19E-10	1.31E-19	1.55E-34	0.0	0.0	0.0
AG110	0.0	1.78E-10	6.47E-11	3.10E-12	1.96E-14	7.81E-19	4.96E-32	0.0	0.0	0.0	0.0
AG110M	8.58E-08	3.12E-08	1.13E-08	5.42E-10	3.42E-12	1.37E-16	8.67E-30	0.0	0.0	0.0	0.0
SN126	8.09E-10	8.09E-10	8.09E-10	8.09E-10	8.09E-10	8.09E-10	8.09E-10	8.09E-10	8.08E-10	8.07E-10	8.04E-10
SB125	6.00E-06	4.67E-06	3.63E-06	1.71E-06	4.87E-07	3.96E-08	2.12E-11	7.50E-17	9.38E-28	0.0	0.0
SB126	0.0	1.68E-09	1.68E-09	1.68E-09	1.68E-09	1.68E-09	1.68E-09	1.68E-09	1.68E-09	1.67E-09	1.67E-09
SB126M	0.0	8.26E-09	8.26E-09	8.26E-09	8.26E-09	8.26E-09	8.26E-09	8.26E-09	8.25E-09	8.23E-09	8.21E-09
TE125M	6.36E-07	3.09E-07	2.38E-07	1.12E-07	3.20E-08	2.60E-09	1.39E-12	4.92E-18	6.16E-29	0.0	0.0
I 129	5.88E-06	5.88E-06	5.88E-06	5.88E-06	5.88E-06	5.88E-06	5.88E-06	5.88E-06	5.88E-06	5.88E-06	5.88E-06
CS134	3.03E-04	2.16E-04	1.55E-04	5.64E-05	1.05E-05	3.65E-07	1.52E-11	7.68E-19	1.95E-33	0.0	0.0
CS135	9.93E-11	9.93E-11	9.93E-11	9.93E-11	9.93E-11	9.93E-11	9.93E-11	9.93E-11	9.93E-11	9.92E-11	9.92E-11
CS137	8.07E-03	7.89E-03	7.71E-03	7.19E-03	6.41E-03	5.09E-03	2.54E-03	8.02E-04	7.96E-05	7.78E-08	7.50E-13
BA137M	2.65E-02	2.65E-02	2.59E-02	2.42E-02	2.15E-02	1.71E-02	8.54E-03	2.69E-03	2.67E-04	2.61E-07	2.52E-12
CE144	1.69E-06	6.92E-07	2.84E-07	1.96E-08	2.29E-10	3.11E-14	7.79E-26	3.60E-45	0.0	0.0	0.0
PR144	1.87E-05	7.67E-06	3.15E-06	2.18E-07	2.54E-09	3.45E-13	8.63E-25	3.99E-44	0.0	0.0	0.0
PR144M	1.02E-08	4.28E-09	1.76E-09	1.22E-10	1.42E-12	1.92E-16	4.82E-28	2.23E-47	0.0	0.0	0.0
PM147	5.72E-06	4.39E-06	3.37E-06	1.53E-06	4.08E-07	2.90E-08	1.05E-11	1.93E-17	6.51E-29	0.0	0.0
SM147	0.0	1.24E-15	2.20E-15	3.93E-15	4.97E-15	5.33E-15	5.36E-15	5.36E-15	5.36E-15	5.36E-15	5.36E-15
SM148	0.0	0.0	0.0	1.51E-37	6.43E-37	2.24E-36	9.65E-36	2.44E-35	5.48E-35	1.46E-34	2.98E-34
EU152	6.35E-08	6.04E-08	5.74E-08	4.93E-08	3.82E-08	2.29E-08	4.97E-09	3.89E-10	2.38E-12	5.48E-19	4.73E-30
EU154	6.05E-05	5.58E-05	5.15E-05	4.04E-05	2.70E-05	1.21E-05	1.08E-06	1.91E-08	6.06E-12	1.92E-22	6.12E-40
EU155	4.72E-07	4.10E-07	3.57E-07	2.35E-07	1.17E-07	2.89E-08	4.36E-10	4.03E-13	3.44E-19	2.14E-37	0.0
GD152	0.0	1.90E-22	3.71E-22	8.62E-22	1.53E-21	2.45E-21	3.53E-21	3.81E-21	3.83E-21	3.83E-21	3.83E-21
TOTAL	4.84E-02	4.77E-02	4.65E-02	4.32E-02	3.84E-02	3.04E-02	1.51E-02	4.72E-03	4.66E-04	6.32E-06	5.89E-06

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	9.57E+11	7.04E+11	6.86E+11	6.36E+11	5.63E+11	4.41E+11	2.16E+11	6.79E+10	8.08E+09	1.20E+09	7.98E+08
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	2.01E-01	4.78E-02	4.66E-02	4.35E-02	3.90E-02	3.13E-02	1.63E-02	5.96E-03	1.53E-03	6.63E-04	3.01E-04

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = DWK - VBA - 400 SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
FE 55	3.20E+08	2.45E+08	1.88E+08	8.44E+07	2.23E+07	1.55E+06	5.22E+02	8.51E-04	2.26E-15	0.0	0.0
CO 60	6.00E+08	5.26E+08	4.61E+08	3.11E+08	1.61E+08	4.33E+07	8.37E+05	1.17E+03	2.27E-03	1.67E-20	0.0
NI 63	9.70E+07	9.63E+07	9.56E+07	9.35E+07	9.00E+07	8.35E+07	6.66E+07	4.57E+07	2.15E+07	2.25E+06	5.20E+04
TOTAL	1.02E+09	8.68E+08	7.45E+08	4.89E+08	2.73E+08	1.28E+08	6.74E+07	4.57E+07	2.15E+07	2.25E+06	5.20E+04

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = DWK - VBA - 400 SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
FE 55	1.19E-05	9.11E-06	6.98E-06	3.14E-06	8.28E-07	5.76E-08	1.94E-11	3.16E-17	8.40E-29	0.0	0.0
CO 60	2.50E-04	2.19E-04	1.92E-04	1.30E-04	6.72E-05	1.80E-05	3.49E-07	4.86E-10	9.46E-16	6.96E-33	0.0
NI 63	1.04E-06	1.03E-06	1.03E-06	1.00E-06	9.66E-07	8.96E-07	7.15E-07	4.90E-07	2.31E-07	2.41E-08	5.58E-10
TOTAL	2.63E-04	2.29E-04	2.00E-04	1.34E-04	6.89E-05	1.90E-05	1.06E-06	4.91E-07	2.31E-07	2.41E-08	5.58E-10

ACTINIDES

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = DWK - VBA - 400 SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL208	2.60E+11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TL209	0.0	9.50E-11	1.58E-09	5.63E-08	8.32E-07	1.20E-05	3.67E-04	4.22E-03	4.15E-02	6.85E-01	4.85E+00
PB209	0.0	4.32E-09	7.18E-08	2.56E-06	3.78E-05	5.46E-04	1.67E-02	1.92E-01	1.89E+00	3.11E+01	2.20E+02
BI213	0.0	4.32E-09	7.18E-08	2.56E-06	3.78E-05	5.46E-04	1.67E-02	1.92E-01	1.89E+00	3.11E+01	2.20E+02
PO212	5.10E+09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PO213	0.0	4.22E-09	7.02E-08	2.50E-06	3.70E-05	5.34E-04	1.63E-02	1.87E-01	1.85E+00	3.04E+01	2.16E+02
AT217	0.0	4.32E-09	7.18E-08	2.56E-06	3.78E-05	5.46E-04	1.67E-02	1.92E-01	1.89E+00	3.11E+01	2.20E+02
FR221	0.0	4.32E-09	7.18E-08	2.56E-06	3.78E-05	5.46E-04	1.67E-02	1.92E-01	1.89E+00	3.11E+01	2.20E+02
RA225	0.0	4.32E-09	7.18E-08	2.56E-06	3.78E-05	5.46E-04	1.67E-02	1.92E-01	1.89E+00	3.11E+01	2.20E+02
AC225	0.0	4.32E-09	7.18E-08	2.56E-06	3.78E-05	5.46E-04	1.67E-02	1.92E-01	1.89E+00	3.11E+01	2.20E+02
TH229	0.0	4.32E-09	7.18E-08	2.56E-06	3.78E-05	5.46E-04	1.67E-02	1.92E-01	1.89E+00	3.11E+01	2.20E+02
PA233	0.0	1.21E+02	4.69E+02	2.77E+03	1.02E+04	3.52E+04	1.50E+05	3.69E+05	7.72E+05	1.66E+06	2.45E+06
U 233	0.0	1.80E-04	1.45E-03	2.09E-02	1.54E-01	1.10E+00	1.28E+01	6.94E+01	3.21E+02	1.96E+03	6.56E+03
U 237	0.0	1.10E+07	1.05E+07	9.06E+06	7.12E+06	4.40E+06	1.04E+06	9.36E+04	7.61E+02	4.08E-04	1.45E-14
NP237	0.0	1.21E+02	4.69E+02	2.77E+03	1.02E+04	3.52E+04	1.50E+05	3.69E+05	7.72E+05	1.66E+06	2.45E+06
PU241	4.60E+11	4.39E+11	4.18E+11	3.62E+11	2.84E+11	1.76E+11	4.15E+10	3.74E+09	3.04E+07	1.63E+01	5.78E-10
AM241	0.0	7.20E+08	1.40E+09	3.27E+09	5.81E+09	9.30E+09	1.32E+10	1.34E+10	1.15E+10	7.11E+09	3.19E+09
TOTAL	7.25E+11	4.39E+11	4.19E+11	3.65E+11	2.90E+11	1.85E+11	5.47E+10	1.71E+10	1.15E+10	7.12E+09	3.20E+09

ACTINIDES

 NUCLIDE THERMAL POWER, WATTS
 BASIS = DWK - VBA - 400 SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL208	1.65E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TL209	0.0	4.26E-23	7.09E-22	2.53E-20	3.74E-19	5.40E-18	1.65E-16	1.89E-15	1.87E-14	3.07E-13	2.18E-12
PB209	0.0	1.34E-22	2.23E-21	7.95E-20	1.18E-18	1.70E-17	5.18E-16	5.96E-15	5.87E-14	9.67E-13	6.85E-12
BI213	0.0	4.90E-22	8.15E-21	2.91E-19	4.30E-18	6.21E-17	1.89E-15	2.18E-14	2.15E-13	3.54E-12	2.50E-11
PO212	7.32E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PO213	0.0	5.77E-21	9.60E-20	3.42E-18	5.06E-17	7.31E-16	2.23E-14	2.56E-13	2.53E-12	4.16E-11	2.95E-10
AT217	0.0	4.98E-21	8.28E-20	2.95E-18	4.36E-17	6.30E-16	1.92E-14	2.21E-13	2.18E-12	3.59E-11	2.54E-10
FR221	0.0	4.47E-21	7.43E-20	2.65E-18	3.91E-17	5.65E-16	1.73E-14	1.98E-13	1.95E-12	3.22E-11	2.28E-10
RA225	0.0	8.18E-23	1.36E-21	4.85E-20	7.17E-19	1.04E-17	3.16E-16	3.63E-15	3.58E-14	5.90E-13	4.18E-12
AC225	0.0	4.10E-21	6.82E-20	2.43E-18	3.60E-17	5.19E-16	1.59E-14	1.82E-13	1.80E-12	2.96E-11	2.10E-10
TH229	0.0	3.57E-21	5.94E-20	2.12E-18	3.13E-17	4.52E-16	1.38E-14	1.59E-13	1.56E-12	2.58E-11	1.83E-10
PA233	0.0	7.43E-12	2.88E-11	1.70E-10	6.26E-10	2.16E-09	9.19E-09	2.26E-08	4.74E-08	1.02E-07	1.50E-07
U 233	0.0	1.41E-16	1.14E-15	1.65E-14	1.21E-13	8.65E-13	1.01E-11	5.46E-11	2.52E-10	1.54E-09	5.16E-09
U 237	0.0	5.61E-07	5.35E-07	4.63E-07	3.64E-07	2.25E-07	5.31E-08	4.79E-09	3.89E-11	2.09E-17	7.39E-28
NP237	0.0	9.61E-11	3.73E-10	2.20E-09	8.11E-09	2.79E-08	1.19E-07	2.93E-07	6.13E-07	1.32E-06	1.95E-06
PU241	3.83E-04	3.65E-04	3.48E-04	3.01E-04	2.37E-04	1.46E-04	3.46E-05	3.12E-06	2.53E-08	1.36E-14	4.81E-25
AM241	0.0	6.50E-04	1.27E-03	2.95E-03	5.24E-03	8.40E-03	1.19E-02	1.21E-02	1.04E-02	6.43E-03	2.88E-03
TOTAL	1.73E-01	1.02E-03	1.62E-03	3.25E-03	5.48E-03	8.55E-03	1.20E-02	1.21E-02	1.04E-02	6.43E-03	2.88E-03

NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = DWK - VBA - 400 SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
SR 90	8.30E+11	8.11E+11	7.92E+11	7.37E+11	6.55E+11	5.16E+11	2.53E+11	7.69E+10	7.12E+09	5.65E+06	3.84E+01
Y 90	8.30E+11	8.11E+11	7.92E+11	7.37E+11	6.55E+11	5.16E+11	2.53E+11	7.69E+10	7.12E+09	5.65E+06	3.84E+01
ZR 93	2.40E+07	2.40E+07	2.40E+07	2.40E+07	2.40E+07	2.40E+07	2.40E+07	2.40E+07	2.40E+07	2.40E+07	2.40E+07
NB 93M	8.30E+06	9.02E+06	9.71E+06	1.16E+07	1.41E+07	1.76E+07	2.17E+07	2.27E+07	2.28E+07	2.28E+07	2.28E+07
TC 99	1.90E+08	1.90E+08	1.90E+08	1.90E+08	1.90E+08	1.90E+08	1.90E+08	1.90E+08	1.90E+08	1.90E+08	1.89E+08
RU106	6.90E+10	3.47E+10	1.75E+10	2.22E+09	7.13E+07	7.37E+04	8.14E-05	9.59E-20	0.0	0.0	0.0
RH106	6.90E+10	3.47E+10	1.75E+10	2.22E+09	7.13E+07	7.37E+04	8.14E-05	9.59E-20	0.0	0.0	0.0
AG110	0.0	3.14E+05	1.14E+05	5.46E+03	3.45E+01	1.38E-03	8.74E-17	0.0	0.0	0.0	0.0
AG110M	6.50E+07	2.36E+07	8.58E+06	4.11E+05	2.59E+03	1.04E-01	6.57E-15	0.0	0.0	0.0	0.0
SN126	7.90E+06	7.90E+06	7.90E+06	7.90E+06	7.90E+06	7.90E+06	7.90E+06	7.90E+06	7.89E+06	7.88E+06	7.85E+06
SB125	2.20E+10	1.71E+10	1.33E+10	6.27E+09	1.79E+09	1.45E+08	7.78E+04	2.75E-01	3.44E-12	0.0	0.0
SB126	0.0	1.11E+06	1.11E+06	1.11E+06	1.11E+06	1.11E+06	1.11E+06	1.11E+06	1.10E+06	1.10E+06	1.10E+06
SB126M	0.0	7.90E+06	7.90E+06	7.90E+06	7.90E+06	7.90E+06	7.90E+06	7.90E+06	7.89E+06	7.88E+06	7.85E+06
TE125M	9.30E+09	4.23E+09	3.25E+09	1.53E+09	4.36E+08	3.54E+07	1.90E+04	6.72E-02	8.40E-13	0.0	0.0
I 129	1.60E+03	1.60E+03	1.60E+03	1.60E+03	1.60E+03	1.60E+03	1.60E+03	1.60E+03	1.60E+03	1.60E+03	1.60E+03
CS134	3.60E+11	2.57E+11	1.84E+11	6.71E+10	1.25E+10	4.34E+08	1.81E+04	9.13E-04	2.32E-18	0.0	0.0
CS135	3.70E+06	3.70E+06	3.70E+06	3.70E+06	3.70E+06	3.70E+06	3.70E+06	3.70E+06	3.70E+06	3.70E+06	3.70E+06
CS137	1.20E+12	1.17E+12	1.15E+12	1.07E+12	9.53E+11	7.56E+11	3.78E+11	1.19E+11	1.18E+10	1.16E+07	1.11E+02
BA137M	1.10E+12	1.11E+12	1.08E+12	1.01E+12	9.01E+11	7.16E+11	3.58E+11	1.13E+11	1.12E+10	1.09E+07	1.05E+02
CE144	3.10E+10	1.27E+10	5.23E+09	3.61E+08	4.21E+06	5.72E+02	1.43E-09	6.62E-29	0.0	0.0	0.0
PR144	3.10E+10	1.27E+10	5.23E+09	3.61E+08	4.21E+06	5.72E+02	1.43E-09	6.62E-29	0.0	0.0	0.0
PR144M	3.60E+08	1.53E+08	6.27E+07	4.34E+06	5.05E+04	6.86E+00	1.72E-11	7.94E-31	0.0	0.0	0.0
ND144	0.0	6.78E-06	9.56E-06	1.14E-05	1.15E-05	1.15E-05	1.15E-05	1.15E-05	1.15E-05	1.15E-05	1.15E-05
PM147	1.90E+11	1.46E+11	1.12E+11	5.07E+10	1.35E+10	9.65E+08	3.49E+05	6.41E-01	2.16E-12	0.0	0.0
SM147	0.0	1.08E+00	1.91E+00	3.42E+00	4.33E+00	4.64E+00	4.66E+00	4.66E+00	4.66E+00	4.66E+00	4.66E+00
SM148	0.0	7.75E-24	3.02E-23	1.78E-22	6.58E-22	2.27E-21	9.70E-21	2.45E-20	5.48E-20	1.46E-19	2.98E-19
EU152	1.00E+08	9.51E+07	9.03E+07	7.75E+07	6.01E+07	3.61E+07	7.83E+06	6.13E+05	3.75E+03	8.63E-04	7.44E-15
EU154	8.30E+10	7.66E+10	7.07E+10	5.55E+10	3.71E+10	1.66E+10	1.48E+09	2.63E+07	8.32E+03	2.64E-07	8.41E-25
EU155	8.30E+09	7.22E+09	6.28E+09	4.13E+09	2.05E+09	5.08E+08	7.67E+06	7.09E+03	6.05E-03	3.76E-21	0.0
GD152	0.0	1.74E-07	3.40E-07	7.89E-07	1.40E-06	2.24E-06	3.24E-06	3.49E-06	3.51E-06	3.51E-06	3.51E-06
TOTAL	4.84E+12	4.51E+12	4.25E+12	3.75E+12	3.23E+12	2.52E+12	1.24E+12	3.86E+11	3.75E+10	2.91E+08	2.57E+08

NUCLIDE THERMAL POWER, WATTS
 BASIS = DWK - VBA - 400 SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
SR 90	2.60E-02	2.54E-02	2.48E-02	2.31E-02	2.05E-02	1.62E-02	7.93E-03	2.41E-03	2.23E-04	1.77E-07	1.21E-12
Y 90	1.24E-01	1.21E-01	1.19E-01	1.10E-01	9.81E-02	7.73E-02	3.79E-02	1.15E-02	1.07E-03	8.46E-07	5.76E-12
ZR 93	7.54E-08	7.54E-08	7.54E-08	7.54E-08	7.54E-08	7.54E-08	7.54E-08	7.54E-08	7.54E-08	7.54E-08	7.54E-08
NB 93M	3.98E-08	4.32E-08	4.65E-08	5.54E-08	6.75E-08	8.42E-08	1.04E-07	1.09E-07	1.09E-07	1.09E-07	1.09E-07
TC 99	2.58E-06	2.58E-06	2.58E-06	2.58E-06	2.58E-06	2.58E-06	2.58E-06	2.58E-06	2.57E-06	2.57E-06	2.57E-06
RU106	1.11E-04	5.56E-05	2.80E-05	3.56E-06	1.14E-07	1.18E-10	1.30E-19	1.54E-34	0.0	0.0	0.0
RH106	1.79E-02	9.00E-03	4.52E-03	5.75E-04	1.85E-05	1.91E-08	2.11E-17	2.49E-32	0.0	0.0	0.0
AG110	0.0	6.10E-08	2.21E-08	1.06E-09	6.70E-12	2.67E-16	1.70E-29	0.0	0.0	0.0	0.0
AG110M	2.93E-05	1.07E-05	3.87E-06	1.85E-07	1.17E-09	4.67E-14	2.97E-27	0.0	0.0	0.0	0.0
SN126	2.66E-07	2.66E-07	2.66E-07	2.66E-07	2.66E-07	2.66E-07	2.66E-07	2.66E-07	2.66E-07	2.65E-07	2.65E-07
SB125	1.86E-03	1.45E-03	1.13E-03	5.30E-04	1.51E-04	1.23E-05	6.58E-09	2.33E-14	2.91E-25	0.0	0.0
SB126	0.0	5.53E-07	5.53E-07	5.53E-07	5.52E-07	5.52E-07	5.52E-07	5.52E-07	5.52E-07	5.51E-07	5.49E-07
SB126M	0.0	2.72E-06	2.72E-06	2.72E-06	2.72E-06	2.72E-06	2.72E-06	2.72E-06	2.72E-06	2.71E-06	2.70E-06
TE125M	2.11E-04	9.61E-05	7.39E-05	3.48E-05	9.91E-06	8.05E-07	4.31E-10	1.53E-15	1.91E-26	0.0	0.0
I 129	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11
CS134	9.91E-02	7.08E-02	5.06E-02	1.85E-02	3.44E-03	1.19E-04	4.99E-09	2.51E-16	6.37E-31	0.0	0.0
CS135	3.34E-08	3.34E-08	3.34E-08	3.34E-08	3.34E-08	3.34E-08	3.34E-08	3.34E-08	3.34E-08	3.34E-08	3.34E-08
CS137	3.59E-02	3.51E-02	3.43E-02	3.20E-02	2.85E-02	2.26E-02	1.13E-02	3.56E-03	3.54E-04	3.46E-07	3.33E-12
BA137M	1.17E-01	1.18E-01	1.15E-01	1.07E-01	9.57E-02	7.59E-02	3.80E-02	1.20E-02	1.19E-03	1.16E-06	1.12E-11
CE144	5.56E-04	2.28E-04	9.37E-05	6.48E-06	7.55E-08	1.03E-11	2.57E-23	1.19E-42	0.0	0.0	0.0
PR144	6.16E-03	2.53E-03	1.04E-03	7.18E-05	8.37E-07	1.14E-10	2.85E-22	1.31E-41	0.0	0.0	0.0
PR144M	3.33E-06	1.41E-06	5.80E-07	4.01E-08	4.67E-10	6.35E-14	1.59E-25	7.34E-45	0.0	0.0	0.0
PM147	1.84E-03	1.41E-03	1.09E-03	4.92E-04	1.31E-04	9.35E-06	3.38E-09	6.22E-15	2.10E-26	0.0	0.0
SM147	0.0	4.00E-13	7.08E-13	1.26E-12	1.60E-12	1.72E-12	1.72E-12	1.72E-12	1.72E-12	1.72E-12	1.72E-12
SM148	0.0	2.50E-36	9.75E-36	5.75E-35	2.12E-34	7.32E-34	3.13E-33	7.90E-33	1.77E-32	4.71E-32	9.62E-32
EU152	2.05E-05	1.95E-05	1.85E-05	1.59E-05	1.23E-05	7.40E-06	1.60E-06	1.26E-07	7.69E-10	1.77E-16	1.53E-27
EU154	2.01E-02	1.85E-02	1.71E-02	1.34E-02	8.97E-03	4.01E-03	3.57E-04	6.36E-06	2.01E-09	6.39E-20	2.03E-37
EU155	1.63E-04	1.42E-04	1.23E-04	8.12E-05	4.04E-05	9.98E-06	1.51E-07	1.39E-10	1.19E-16	7.40E-35	0.0
GD152	0.0	6.14E-20	1.20E-19	2.78E-19	4.93E-19	7.90E-19	1.14E-18	1.23E-18	1.24E-18	1.24E-18	1.24E-18
TOTAL	4.51E-01	4.04E-01	3.69E-01	3.07E-01	2.56E-01	1.96E-01	9.54E-02	2.95E-02	2.84E-03	8.85E-06	6.30E-06

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	5.56E+12	4.95E+12	4.67E+12	4.11E+12	3.52E+12	2.71E+12	1.30E+12	4.03E+11	4.91E+10	7.41E+09	3.45E+09
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	6.24E-01	4.05E-01	3.70E-01	3.10E-01	2.61E-01	2.05E-01	1.07E-01	4.16E-02	1.32E-02	6.44E-03	2.89E-03

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = DWK - VBA - 200 IN 400SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = DWK - VBA - 200 IN 400SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ACTINIDES

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = DWK - VBA - 200 IN 400SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL208	1.90E+12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TL209	2.20E-07	3.49E-07	5.37E-07	1.60E-06	6.53E-06	4.61E-05	9.59E-04	9.91E-03	9.33E-02	1.50E+00	1.05E+01
PB209	9.90E-06	1.59E-05	2.44E-05	7.25E-05	2.97E-04	2.09E-03	4.36E-02	4.51E-01	4.24E+00	6.82E+01	4.79E+02
BI213	9.90E-06	1.59E-05	2.44E-05	7.25E-05	2.97E-04	2.09E-03	4.36E-02	4.51E-01	4.24E+00	6.82E+01	4.79E+02
PO213	9.70E-06	1.55E-05	2.39E-05	7.09E-05	2.90E-04	2.05E-03	4.26E-02	4.41E-01	4.15E+00	6.67E+01	4.69E+02
AT217	9.90E-06	1.59E-05	2.44E-05	7.25E-05	2.97E-04	2.09E-03	4.36E-02	4.51E-01	4.24E+00	6.82E+01	4.79E+02
FR221	9.90E-06	1.59E-05	2.44E-05	7.25E-05	2.97E-04	2.09E-03	4.36E-02	4.51E-01	4.24E+00	6.82E+01	4.79E+02
RA225	9.90E-06	1.59E-05	2.44E-05	7.25E-05	2.97E-04	2.09E-03	4.36E-02	4.51E-01	4.24E+00	6.82E+01	4.79E+02
AC225	9.90E-06	1.59E-05	2.44E-05	7.25E-05	2.97E-04	2.09E-03	4.36E-02	4.51E-01	4.24E+00	6.82E+01	4.79E+02
TH229	9.90E-06	1.59E-05	2.44E-05	7.25E-05	2.97E-04	2.09E-03	4.36E-02	4.51E-01	4.24E+00	6.82E+01	4.79E+02
PA233	4.30E+03	5.54E+03	7.23E+03	1.47E+04	3.42E+04	9.29E+04	3.46E+05	8.19E+05	1.69E+06	3.60E+06	5.30E+06
U 233	5.10E-02	7.44E-02	1.05E-01	2.48E-01	7.65E-01	3.45E+00	3.14E+01	1.59E+02	7.11E+02	4.27E+03	1.42E+04
U 237	5.00E+06	2.15E+07	2.05E+07	1.77E+07	1.39E+07	8.61E+06	2.03E+06	1.83E+05	1.49E+03	7.99E-04	2.83E-14
NP237	4.30E+03	5.54E+03	7.23E+03	1.47E+04	3.42E+04	9.29E+04	3.46E+05	8.19E+05	1.69E+06	3.60E+06	5.30E+06
PU241	9.00E+11	8.58E+11	8.18E+11	7.08E+11	5.56E+11	3.44E+11	8.12E+10	7.32E+09	5.95E+07	3.19E+01	1.13E-09
AM241	3.10E+09	4.50E+09	5.84E+09	9.46E+09	1.44E+10	2.12E+10	2.87E+10	2.88E+10	2.48E+10	1.53E+10	6.87E+09
TOTAL	2.80E+12	8.63E+11	8.24E+11	7.17E+11	5.71E+11	3.65E+11	1.10E+11	3.61E+10	2.48E+10	1.53E+10	6.88E+09

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = DWK - VBA - 200 IN 400SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL208	1.21E+00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TL209	9.88E-20	1.57E-19	2.41E-19	7.16E-19	2.93E-18	2.07E-17	4.31E-16	4.45E-15	4.19E-14	6.73E-13	4.73E-12
PB209	3.08E-19	4.93E-19	7.58E-19	2.25E-18	9.22E-18	6.51E-17	1.35E-15	1.40E-14	1.32E-13	2.12E-12	1.49E-11
BI213	1.13E-18	1.80E-18	2.77E-18	8.24E-18	3.37E-17	2.38E-16	4.95E-15	5.12E-14	4.82E-13	7.74E-12	5.45E-11
PO213	1.33E-17	2.12E-17	3.26E-17	9.70E-17	3.97E-16	2.80E-15	5.83E-14	6.03E-13	5.67E-12	9.12E-11	6.41E-10
AT217	1.14E-17	1.83E-17	2.81E-17	8.36E-17	3.42E-16	2.41E-15	5.03E-14	5.20E-13	4.89E-12	7.86E-11	5.53E-10
FR221	1.02E-17	1.64E-17	2.52E-17	7.50E-17	3.07E-16	2.17E-15	4.51E-14	4.66E-13	4.39E-12	7.05E-11	4.96E-10
RA225	1.88E-19	3.01E-19	4.62E-19	1.37E-18	5.62E-18	3.97E-17	8.26E-16	8.54E-15	8.04E-14	1.29E-12	9.08E-12
AC225	9.42E-18	1.51E-17	2.32E-17	6.90E-17	2.82E-16	1.99E-15	4.14E-14	4.28E-13	4.03E-12	6.48E-11	4.56E-10
TH229	8.20E-18	1.31E-17	2.02E-17	6.01E-17	2.46E-16	1.73E-15	3.61E-14	3.73E-13	3.51E-12	5.64E-11	3.97E-10
PA233	2.64E-10	3.40E-10	4.43E-10	9.03E-10	2.10E-09	5.70E-09	2.12E-08	5.02E-08	1.03E-07	2.21E-07	3.25E-07
U 233	4.01E-14	5.85E-14	8.24E-14	1.95E-13	6.01E-13	2.71E-12	2.47E-11	1.25E-10	5.59E-10	3.36E-09	1.12E-08
U 237	2.56E-07	1.10E-06	1.05E-06	9.06E-07	7.12E-07	4.40E-07	1.04E-07	9.37E-09	7.61E-11	4.08E-17	1.45E-27
NP237	3.42E-09	4.40E-09	5.74E-09	1.17E-08	2.72E-08	7.38E-08	2.74E-07	6.50E-07	1.34E-06	2.86E-06	4.21E-06
PU241	7.50E-04	7.15E-04	6.81E-04	5.90E-04	4.64E-04	2.86E-04	6.76E-05	6.10E-06	4.95E-08	2.66E-14	9.42E-25
AM241	2.80E-03	4.07E-03	5.27E-03	8.55E-03	1.30E-02	1.92E-02	2.59E-02	2.60E-02	2.24E-02	1.38E-02	6.20E-03
TOTAL	1.21E+00	4.78E-03	5.96E-03	9.14E-03	1.35E-02	1.94E-02	2.60E-02	2.60E-02	2.24E-02	1.38E-02	6.21E-03

FISSION PRODUCTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = DWK - VBA - 200 IN 400SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
SR 90	3.20E+10	3.13E+10	3.05E+10	2.84E+10	2.52E+10	1.99E+10	9.74E+09	2.96E+09	2.74E+08	2.18E+05	1.48E+00
Y 90	3.20E+10	3.13E+10	3.05E+10	2.84E+10	2.52E+10	1.99E+10	9.74E+09	2.96E+09	2.74E+08	2.18E+05	1.48E+00
CS137	9.40E+11	9.19E+11	8.98E+11	8.38E+11	7.46E+11	5.92E+11	2.96E+11	9.33E+10	9.27E+09	9.06E+06	8.73E+01
BA137M	9.00E+11	8.69E+11	8.49E+11	7.93E+11	7.06E+11	5.60E+11	2.80E+11	8.83E+10	8.76E+09	8.57E+06	8.26E+01
TOTAL	1.90E+12	1.85E+12	1.81E+12	1.69E+12	1.50E+12	1.19E+12	5.96E+11	1.88E+11	1.86E+10	1.81E+07	1.73E+02

FISSION PRODUCTS

NUCLIDE THERMAL POWER, WATTS
BASIS = DWK - VBA - 200 IN 400SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
SR 90	1.00E-03	9.81E-04	9.58E-04	8.92E-04	7.92E-04	6.24E-04	3.06E-04	9.30E-05	8.61E-06	6.83E-09	4.65E-14
Y 90	4.80E-03	4.68E-03	4.57E-03	4.26E-03	3.78E-03	2.98E-03	1.46E-03	4.44E-04	4.11E-05	3.26E-08	2.22E-13
CS137	2.81E-02	2.75E-02	2.68E-02	2.50E-02	2.23E-02	1.77E-02	8.86E-03	2.79E-03	2.77E-04	2.71E-07	2.61E-12
BA137M	9.55E-02	9.23E-02	9.01E-02	8.41E-02	7.49E-02	5.95E-02	2.97E-02	9.37E-03	9.30E-04	9.10E-07	8.76E-12
TOTAL	1.29E-01	1.25E-01	1.23E-01	1.14E-01	1.02E-01	8.08E-02	4.04E-02	1.27E-02	1.26E-03	1.22E-06	1.16E-11

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

RADIOACTIVITY ,BECQUEREL

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	4.71E+12	2.71E+12	2.63E+12	2.40E+12	2.07E+12	1.56E+12	7.06E+11	2.24E+11	4.34E+10	1.53E+10	6.88E+09

THERMAL POWER ,WATTS

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	1.34E+00	1.30E-01	1.28E-01	1.23E-01	1.15E-01	1.00E-01	6.64E-02	3.87E-02	2.36E-02	1.38E-02	6.21E-03

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP I, 15/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
CO 60	9.50E+06	8.33E+06	7.31E+06	4.92E+06	2.55E+06	6.85E+05	1.33E+04	1.85E+01	3.60E-05	2.65E-22	0.0
TOTAL	9.50E+06	8.33E+06	7.31E+06	4.92E+06	2.55E+06	6.85E+05	1.33E+04	1.85E+01	3.60E-05	2.65E-22	0.0

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP I, 15/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
CO 60	3.96E-06	3.47E-06	3.04E-06	2.05E-06	1.06E-06	2.85E-07	5.52E-09	7.70E-12	1.50E-17	1.10E-34	0.0
TOTAL	3.96E-06	3.47E-06	3.04E-06	2.05E-06	1.06E-06	2.85E-07	5.52E-09	7.70E-12	1.50E-17	1.10E-34	0.0

ACTINIDES

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP I, 15/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP I, 15/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FISSION PRODUCTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP I, 15/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
SR 90	1.60E+10	1.56E+10	1.53E+10	1.42E+10	1.26E+10	9.95E+09	4.87E+09	1.48E+09	1.37E+08	1.09E+05	7.41E-01
Y 90	1.60E+10	1.56E+10	1.53E+10	1.42E+10	1.26E+10	9.95E+09	4.87E+09	1.48E+09	1.37E+08	1.09E+05	7.41E-01
CS134	7.50E+06	5.36E+06	3.83E+06	1.40E+06	2.60E+05	9.04E+03	3.78E-01	1.90E-08	4.82E-23	0.0	0.0
CS137	6.40E+08	6.26E+08	6.11E+08	5.70E+08	5.08E+08	4.03E+08	2.02E+08	6.36E+07	6.31E+06	6.17E+03	5.94E-02
BA137M	6.10E+08	5.92E+08	5.78E+08	5.40E+08	4.81E+08	3.82E+08	1.91E+08	6.01E+07	5.97E+06	5.84E+03	5.62E-02
EU154	8.00E+07	7.38E+07	6.81E+07	5.35E+07	3.58E+07	1.60E+07	1.42E+06	2.53E+04	8.02E+00	2.55E-10	8.10E-28
EU155	8.60E+06	7.48E+06	6.51E+06	4.28E+06	2.13E+06	5.26E+05	7.95E+03	7.34E+00	6.27E-06	3.90E-24	0.0
TOTAL	3.34E+10	3.26E+10	3.18E+10	2.96E+10	2.63E+10	2.07E+10	1.01E+10	3.09E+09	2.87E+08	2.30E+05	1.60E+00

FISSION PRODUCTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP I, 15/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
SR 90	5.02E-04	4.90E-04	4.79E-04	4.46E-04	3.96E-04	3.12E-04	1.53E-04	4.65E-05	4.30E-06	3.42E-09	2.32E-14
Y 90	2.40E-03	2.34E-03	2.29E-03	2.13E-03	1.89E-03	1.49E-03	7.30E-04	2.22E-04	2.06E-05	1.63E-08	1.11E-13
CS134	2.06E-06	1.47E-06	1.05E-06	3.85E-07	7.16E-08	2.49E-09	1.04E-13	5.23E-21	1.33E-35	0.0	0.0
CS137	1.91E-05	1.87E-05	1.83E-05	1.71E-05	1.52E-05	1.21E-05	6.03E-06	1.90E-06	1.89E-07	1.84E-10	1.78E-15
BA137M	6.48E-05	6.28E-05	6.14E-05	5.73E-05	5.10E-05	4.05E-05	2.03E-05	6.38E-06	6.33E-07	6.19E-10	5.97E-15
EU154	1.93E-05	1.79E-05	1.65E-05	1.29E-05	8.64E-06	3.86E-06	3.44E-07	6.13E-09	1.94E-12	6.16E-23	1.96E-40
EU155	1.69E-07	1.47E-07	1.28E-07	8.41E-08	4.18E-08	1.03E-08	1.56E-10	1.44E-13	1.23E-19	7.67E-38	0.0
TOTAL	3.01E-03	2.93E-03	2.86E-03	2.66E-03	2.36E-03	1.86E-03	9.09E-04	2.77E-04	2.57E-05	2.05E-08	1.42E-13

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

RADIOACTIVITY ,BECQUEREL

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	3.34E+10	3.26E+10	3.18E+10	2.96E+10	2.63E+10	2.07E+10	1.01E+10	3.09E+09	2.87E+08	2.30E+05	1.60E+00

THERMAL POWER ,WATTS

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	3.01E-03	2.94E-03	2.87E-03	2.66E-03	2.36E-03	1.86E-03	9.09E-04	2.77E-04	2.57E-05	2.05E-08	1.42E-13

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP I, 15/8

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
BE 10	9.20E+00	9.20E+00	9.20E+00	9.20E+00	9.20E+00	9.20E+00	9.20E+00	9.20E+00	9.20E+00	9.20E+00	9.20E+00
C 14	4.20E+04	4.20E+04	4.20E+04	4.20E+04	4.20E+04	4.19E+04	4.18E+04	4.15E+04	4.10E+04	3.96E+04	3.72E+04
CA 41	4.80E+07	4.80E+07	4.80E+07	4.80E+07	4.80E+07	4.80E+07	4.80E+07	4.80E+07	4.79E+07	4.78E+07	4.76E+07
CA 45	3.00E+08	6.35E+07	1.34E+07	1.27E+05	5.39E+01	9.69E-06	5.63E-26	0.0	0.0	0.0	0.0
SC 46	5.80E+05	2.83E+04	1.38E+03	1.60E-01	4.42E-08	3.37E-21	0.0	0.0	0.0	0.0	0.0
V 49	3.40E+04	1.58E+04	7.34E+03	7.35E+02	1.59E+01	7.40E-03	7.50E-13	1.65E-29	0.0	0.0	0.0
MN 54	5.90E+10	2.63E+10	1.17E+10	1.03E+09	1.79E+07	5.44E+03	1.52E-07	3.94E-25	0.0	0.0	0.0
FE 55	2.10E+12	1.61E+12	1.23E+12	5.54E+11	1.46E+11	1.02E+10	3.42E+06	5.58E+00	1.48E-11	0.0	0.0
FE 59	2.80E+07	1.01E+05	3.65E+02	1.71E-05	1.05E-17	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	1.00E+03	2.80E+01	7.83E-01	1.72E-05	2.94E-13	8.65E-29	0.0	0.0	0.0	0.0	0.0
CO 60	1.40E+12	1.23E+12	1.08E+12	7.26E+11	3.76E+11	1.01E+11	1.95E+09	2.72E+06	5.30E+00	3.90E-17	0.0
NI 59	5.40E+10	5.40E+10	5.40E+10	5.40E+10	5.40E+10	5.40E+10	5.40E+10	5.40E+10	5.39E+10	5.38E+10	5.36E+10
NI 63	6.50E+12	6.45E+12	6.41E+12	6.26E+12	6.03E+12	5.59E+12	4.46E+12	3.06E+12	1.44E+12	1.50E+11	3.48E+09
ZN 65	1.60E+09	5.67E+08	2.01E+08	8.92E+06	4.97E+04	1.55E+00	4.64E-14	0.0	0.0	0.0	0.0
TOTAL	1.01E+13	9.37E+12	8.78E+12	7.60E+12	6.61E+12	5.76E+12	4.52E+12	3.12E+12	1.50E+12	2.04E+11	5.71E+10

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP I, 15/8

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
BE 10	2.99E-13	2.99E-13	2.99E-13	2.99E-13	2.99E-13	2.99E-13	2.99E-13	2.99E-13	2.99E-13	2.99E-13	2.98E-13
C 14	3.33E-10	3.33E-10	3.33E-10	3.33E-10	3.33E-10	3.32E-10	3.31E-10	3.29E-10	3.25E-10	3.14E-10	2.95E-10
CA 41	3.28E-06	3.28E-06	3.28E-06	3.28E-06	3.28E-06	3.28E-06	3.28E-06	3.28E-06	3.28E-06	3.27E-06	3.26E-06
CA 45	3.71E-06	7.85E-07	1.66E-07	1.57E-09	6.67E-13	1.20E-19	6.96E-40	0.0	0.0	0.0	0.0
SC 46	1.97E-07	9.62E-09	4.69E-10	5.44E-14	1.50E-20	1.14E-33	0.0	0.0	0.0	0.0	0.0
V 49	2.34E-11	1.09E-11	5.05E-12	5.06E-13	1.09E-14	5.10E-18	5.17E-28	1.14E-44	0.0	0.0	0.0
MN 54	7.94E-03	3.53E-03	1.57E-03	1.38E-04	2.41E-06	7.32E-10	2.05E-20	5.30E-38	0.0	0.0	0.0
FE 55	7.81E-02	5.98E-02	4.58E-02	2.06E-02	5.43E-03	3.78E-04	1.27E-07	2.08E-13	5.51E-25	0.0	0.0
FE 59	7.06E-06	2.55E-08	9.19E-11	4.31E-18	2.64E-30	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	1.62E-10	4.53E-12	1.27E-13	2.78E-18	4.76E-26	1.40E-41	0.0	0.0	0.0	0.0	0.0
CO 60	5.84E-01	5.12E-01	4.49E-01	3.02E-01	1.57E-01	4.21E-02	8.14E-04	1.14E-06	2.21E-12	1.62E-29	0.0
NI 59	9.30E-03	9.30E-03	9.30E-03	9.29E-03	9.29E-03	9.29E-03	9.29E-03	9.29E-03	9.28E-03	9.26E-03	9.22E-03
NI 63	6.98E-02	6.93E-02	6.88E-02	6.72E-02	6.47E-02	6.00E-02	4.79E-02	3.29E-02	1.55E-02	1.62E-03	3.74E-05
ZN 65	1.52E-04	5.37E-05	1.90E-05	8.45E-07	4.71E-09	1.46E-13	4.39E-27	0.0	0.0	0.0	0.0
TOTAL	7.49E-01	6.54E-01	5.74E-01	4.00E-01	2.36E-01	1.12E-01	5.80E-02	4.22E-02	2.48E-02	1.09E-02	9.26E-03

ACTINIDES

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP I, 15/8

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL208	1.00E+03	1.44E+03	1.30E+03	9.57E+02	5.72E+02	2.03E+02	6.53E+00	3.70E-02	1.67E-06	5.59E-20	0.0
PB212	4.40E+03	4.00E+03	3.62E+03	2.66E+03	1.59E+03	5.66E+02	1.82E+01	1.03E-01	4.66E-06	1.56E-19	0.0
BI212	2.80E+03	4.00E+03	3.62E+03	2.66E+03	1.59E+03	5.66E+02	1.82E+01	1.03E-01	4.66E-06	1.56E-19	0.0
PO212	1.80E+03	2.57E+03	2.32E+03	1.71E+03	1.02E+03	3.63E+02	1.17E+01	6.61E-02	2.99E-06	9.98E-20	0.0
PO216	2.80E+03	4.00E+03	3.62E+03	2.66E+03	1.59E+03	5.66E+02	1.82E+01	1.03E-01	4.66E-06	1.56E-19	0.0
RN220	2.80E+03	4.00E+03	3.62E+03	2.66E+03	1.59E+03	5.66E+02	1.82E+01	1.03E-01	4.66E-06	1.56E-19	0.0
RA224	4.40E+03	4.00E+03	3.62E+03	2.66E+03	1.59E+03	5.66E+02	1.82E+01	1.03E-01	4.66E-06	1.56E-19	0.0
RA228	3.20E+03	2.89E+03	2.60E+03	1.91E+03	1.14E+03	4.05E+02	1.82E+01	1.03E-01	3.32E-06	1.11E-19	0.0
AC228	3.20E+03	2.89E+03	2.60E+03	1.91E+03	1.14E+03	4.05E+02	1.82E+01	1.03E-01	3.32E-06	1.11E-19	0.0
TH228	4.40E+03	3.99E+03	3.61E+03	2.66E+03	1.59E+03	5.66E+02	1.82E+01	1.03E-01	4.65E-06	1.55E-19	0.0
TOTAL	3.08E+04	3.38E+04	3.05E+04	2.25E+04	1.34E+04	4.77E+03	1.64E+02	9.28E-01	3.92E-05	1.31E-18	0.0

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP I, 15/8

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL208	6.36E-10	9.14E-10	8.26E-10	6.08E-10	3.64E-10	1.29E-10	4.15E-12	2.35E-14	1.06E-18	3.55E-32	0.0
PB212	2.27E-10	2.06E-10	1.86E-10	1.37E-10	8.20E-11	2.91E-11	9.36E-13	5.31E-15	2.40E-19	8.01E-33	0.0
BI212	1.29E-09	1.84E-09	1.66E-09	1.22E-09	7.32E-10	2.60E-10	8.36E-12	4.74E-14	2.14E-18	7.15E-32	0.0
PO212	2.58E-09	3.68E-09	3.33E-09	2.45E-09	1.46E-09	5.21E-10	1.67E-11	9.48E-14	4.28E-18	1.43E-31	0.0
PO216	3.00E-09	4.28E-09	3.87E-09	2.85E-09	1.70E-09	6.06E-10	1.95E-11	1.10E-13	4.98E-18	1.66E-31	0.0
RN220	2.87E-09	4.11E-09	3.71E-09	2.73E-09	1.63E-09	5.81E-10	1.87E-11	1.06E-13	4.78E-18	1.60E-31	0.0
RA224	4.08E-09	3.71E-09	3.36E-09	2.47E-09	1.48E-09	5.25E-10	1.69E-11	9.56E-14	4.32E-18	1.44E-31	0.0
RA228	6.67E-12	6.01E-12	5.42E-12	3.98E-12	2.37E-12	8.42E-13	3.78E-14	2.15E-16	6.92E-21	2.31E-34	0.0
AC228	7.48E-10	6.74E-10	6.08E-10	4.46E-10	2.66E-10	9.45E-11	4.24E-12	2.41E-14	7.76E-19	2.59E-32	0.0
TH228	3.89E-09	3.52E-09	3.19E-09	2.35E-09	1.41E-09	5.01E-10	1.61E-11	9.12E-14	4.11E-18	1.37E-31	0.0
TOTAL	1.93E-08	2.29E-08	2.08E-08	1.53E-08	9.13E-09	3.25E-09	1.05E-10	5.98E-13	2.67E-17	8.92E-31	0.0

FISSION PRODUCTS

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = GUSSBH. TYP I, 15/8

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NB 94	2.50E+05	2.50E+05	2.50E+05	2.50E+05	2.50E+05	2.50E+05	2.50E+05	2.49E+05	2.48E+05	2.46E+05	2.42E+05
NB 95	1.20E+04	8.96E+00	6.68E-03	2.77E-12	6.41E-28	0.0	0.0	0.0	0.0	0.0	0.0
AG108	2.80E+03	3.54E+03	3.52E+03	3.47E+03	3.37E+03	3.19E+03	2.71E+03	2.06E+03	1.20E+03	2.33E+02	1.52E+01
AG108M	4.00E+04	3.98E+04	3.96E+04	3.89E+04	3.79E+04	3.59E+04	3.05E+04	2.32E+04	1.34E+04	2.61E+03	1.71E+02
CS137	2.50E+04	2.44E+04	2.39E+04	2.23E+04	1.99E+04	1.58E+04	7.88E+03	2.48E+03	2.46E+02	2.41E-01	2.32E-06
BA137M	2.40E+04	2.31E+04	2.26E+04	2.11E+04	1.88E+04	1.49E+04	7.45E+03	2.35E+03	2.33E+02	2.28E-01	2.20E-06
SM148	2.80E-19	3.51E-19	4.30E-19	7.16E-19	1.33E-18	2.96E-18	9.39E-18	2.15E-17	4.64E-17	1.21E-16	2.45E-16
EU152	6.00E+10	5.70E+10	5.42E+10	4.65E+10	3.61E+10	2.17E+10	4.70E+09	3.68E+08	2.25E+06	5.18E-01	4.47E-12
EU154	3.80E+09	3.51E+09	3.24E+09	2.54E+09	1.70E+09	7.59E+08	6.76E+07	1.20E+06	3.81E+02	1.21E-08	3.85E-26
GD152	7.60E-04	8.65E-04	9.64E-04	1.23E-03	1.60E-03	2.11E-03	2.70E-03	2.85E-03	2.87E-03	2.87E-03	2.87E-03
TOTAL	6.38E+10	6.06E+10	5.74E+10	4.91E+10	3.78E+10	2.24E+10	4.77E+09	3.69E+08	2.52E+06	2.49E+05	2.42E+05

FISSION PRODUCTS

 NUCLIDE THERMAL POWER, WATTS
 BASIS = GUSSBH. TYP I, 15/8

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NB 94	6.89E-08	6.89E-08	6.89E-08	6.89E-08	6.89E-08	6.88E-08	6.88E-08	6.86E-08	6.84E-08	6.77E-08	6.66E-08
NB 95	1.56E-09	1.16E-12	8.66E-16	3.60E-25	8.31E-41	0.0	0.0	0.0	0.0	0.0	0.0
AG108	2.82E-10	3.57E-10	3.55E-10	3.49E-10	3.40E-10	3.22E-10	2.73E-10	2.08E-10	1.20E-10	2.34E-11	1.53E-12
AG108M	1.05E-08	1.05E-08	1.04E-08	1.02E-08	9.96E-09	9.43E-09	8.01E-09	6.10E-09	3.53E-09	6.87E-10	4.49E-11
CS137	7.48E-10	7.31E-10	7.14E-10	6.66E-10	5.93E-10	4.71E-10	2.36E-10	7.42E-11	7.37E-12	7.20E-15	6.94E-20
BA137M	2.55E-09	2.45E-09	2.40E-09	2.24E-09	1.99E-09	1.58E-09	7.91E-10	2.49E-10	2.47E-11	2.42E-14	2.33E-19
SM148	9.04E-32	1.13E-31	1.39E-31	2.31E-31	4.30E-31	9.54E-31	3.03E-30	6.95E-30	1.50E-29	3.90E-29	7.90E-29
EU152	1.23E-02	1.17E-02	1.11E-02	9.53E-03	7.39E-03	4.44E-03	9.63E-04	7.53E-05	4.62E-07	1.06E-13	9.15E-25
EU154	9.19E-04	8.48E-04	7.82E-04	6.14E-04	4.11E-04	1.83E-04	1.64E-05	2.91E-07	9.21E-11	2.92E-21	9.31E-39
GD152	2.68E-16	3.05E-16	3.40E-16	4.35E-16	5.64E-16	7.42E-16	9.51E-16	1.00E-15	1.01E-15	1.01E-15	1.01E-15
TOTAL	1.32E-02	1.25E-02	1.19E-02	1.01E-02	7.80E-03	4.62E-03	9.79E-04	7.57E-05	5.34E-07	6.84E-08	6.66E-08

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

	RADIOACTIVITY , BECQUEREL										
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	1.02E+13	9.43E+12	8.84E+12	7.65E+12	6.64E+12	5.78E+12	4.52E+12	3.12E+12	1.50E+12	2.04E+11	5.71E+10
	THERMAL POWER , WATTS										
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	7.62E-01	6.66E-01	5.86E-01	4.10E-01	2.44E-01	1.16E-01	5.90E-02	4.22E-02	2.48E-02	1.09E-02	9.26E-03

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP I, 15/10

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	6.40E+03	6.40E+03	6.40E+03	6.40E+03	6.39E+03	6.39E+03	6.36E+03	6.33E+03	6.25E+03	6.03E+03	5.67E+03
NA 22	1.50E+02	1.15E+02	8.81E+01	3.96E+01	1.05E+01	7.29E-01	2.47E-04	4.07E-10	1.10E-21	0.0	0.0
V 49	3.00E+05	1.39E+05	6.47E+04	6.48E+03	1.40E+02	6.53E-02	6.62E-12	1.46E-28	0.0	0.0	0.0
MN 54	1.30E+10	5.79E+09	2.57E+09	2.27E+08	3.95E+06	1.20E+03	3.36E-08	8.67E-26	0.0	0.0	0.0
FE 55	1.40E+11	1.07E+11	8.22E+10	3.69E+10	9.74E+09	6.78E+08	2.28E+05	3.72E-01	9.89E-13	0.0	0.0
FE 59	3.00E+04	1.08E+02	3.91E-01	1.83E-08	1.12E-20	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	8.80E+06	2.46E+05	6.89E+03	1.51E-01	2.59E-09	7.61E-25	0.0	0.0	0.0	0.0	0.0
CO 60	1.90E+13	1.67E+13	1.46E+13	9.85E+12	5.10E+12	1.37E+12	2.65E+10	3.70E+07	7.19E+01	5.29E-16	0.0
NI 59	3.80E+09	3.80E+09	3.80E+09	3.80E+09	3.80E+09	3.80E+09	3.80E+09	3.80E+09	3.80E+09	3.79E+09	3.77E+09
NI 63	4.30E+12	4.27E+12	4.24E+12	4.14E+12	3.99E+12	3.70E+12	2.95E+12	2.03E+12	9.54E+11	9.95E+10	2.30E+09
ZN 65	1.30E+09	4.61E+08	1.63E+08	7.25E+06	4.04E+04	1.26E+00	3.77E-14	0.0	0.0	0.0	0.0
TOTAL	2.35E+13	2.11E+13	1.89E+13	1.40E+13	9.11E+12	5.07E+12	2.98E+12	2.03E+12	9.57E+11	1.03E+11	6.07E+09

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP I, 15/10

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	5.08E-11	5.08E-11	5.08E-11	5.07E-11	5.07E-11	5.07E-11	5.05E-11	5.02E-11	4.96E-11	4.78E-11	4.50E-11
NA 22	5.74E-11	4.40E-11	3.37E-11	1.52E-11	4.00E-12	2.79E-13	9.45E-17	1.56E-22	4.22E-34	0.0	0.0
V 49	2.07E-10	9.60E-11	4.46E-11	4.46E-12	9.64E-14	4.50E-17	4.56E-27	1.01E-43	0.0	0.0	0.0
MN 54	1.75E-03	7.79E-04	3.46E-04	3.05E-05	5.31E-07	1.61E-10	4.52E-21	1.17E-38	0.0	0.0	0.0
FE 55	5.21E-03	3.99E-03	3.05E-03	1.37E-03	3.62E-04	2.52E-05	8.49E-09	1.38E-14	3.68E-26	0.0	0.0
FE 59	7.56E-09	2.73E-11	9.84E-14	4.62E-21	2.82E-33	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	1.42E-06	3.99E-08	1.12E-09	2.44E-14	4.19E-22	1.23E-37	0.0	0.0	0.0	0.0	0.0
CO 60	7.92E+00	6.94E+00	6.09E+00	4.10E+00	2.13E+00	5.71E-01	1.10E-02	1.54E-05	3.00E-11	2.20E-28	0.0
NI 59	6.54E-04	6.54E-04	6.54E-04	6.54E-04	6.54E-04	6.54E-04	6.54E-04	6.54E-04	6.53E-04	6.51E-04	6.48E-04
NI 63	4.62E-02	4.58E-02	4.55E-02	4.45E-02	4.28E-02	3.97E-02	3.17E-02	2.17E-02	1.02E-02	1.07E-03	2.47E-05
ZN 65	1.23E-04	4.36E-05	1.55E-05	6.87E-07	3.83E-09	1.19E-13	3.57E-27	0.0	0.0	0.0	0.0
TOTAL	7.97E+00	7.00E+00	6.14E+00	4.15E+00	2.17E+00	6.11E-01	4.34E-02	2.24E-02	1.09E-02	1.72E-03	6.73E-04

ACTINIDES

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP I, 15/10

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	5.40E-08	6.73E-08	8.30E-08	1.48E-07	3.33E-07	1.11E-06	8.34E-06	4.24E-05	2.05E-04	1.66E-03	6.51E-03
TL208	2.60E+02	3.61E+02	3.28E+02	2.44E+02	1.46E+02	5.21E+01	1.67E+00	9.49E-03	4.40E-07	6.68E-08	2.60E-07
TL209	9.60E-10	1.20E-09	1.50E-09	2.76E-09	6.36E-09	2.20E-08	1.93E-07	1.25E-06	8.75E-06	1.15E-04	7.54E-04
PB209	4.30E-08	5.45E-08	6.82E-08	1.25E-07	2.89E-07	1.00E-06	8.76E-06	5.68E-05	3.98E-04	5.23E-03	3.43E-02
PB210	1.10E-06	1.45E-06	1.87E-06	3.80E-06	1.03E-05	4.75E-05	6.89E-04	6.27E-03	5.27E-02	7.43E-01	3.44E+00
PB211	5.40E-08	6.75E-08	8.32E-08	1.48E-07	3.34E-07	1.11E-06	8.37E-06	4.25E-05	2.06E-04	1.67E-03	6.53E-03
PB212	1.10E+03	1.01E+03	9.14E+02	6.78E+02	4.07E+02	1.45E+02	4.66E+00	2.64E-02	1.22E-06	1.86E-07	7.23E-07
PB214	1.10E-05	1.38E-05	1.72E-05	3.09E-05	7.06E-05	2.44E-04	2.09E-03	1.27E-02	7.77E-02	7.43E-01	3.44E+00
BI210	1.10E-06	1.45E-06	1.87E-06	3.80E-06	1.03E-05	4.75E-05	6.89E-04	6.27E-03	5.27E-02	7.43E-01	3.44E+00
BI211	5.40E-08	6.75E-08	8.32E-08	1.48E-07	3.34E-07	1.11E-06	8.37E-06	4.25E-05	2.06E-04	1.67E-03	6.53E-03
BI212	7.20E+02	1.01E+03	9.14E+02	6.78E+02	4.07E+02	1.45E+02	4.66E+00	2.64E-02	1.22E-06	1.86E-07	7.23E-07
BI213	4.30E-08	5.45E-08	6.82E-08	1.25E-07	2.89E-07	1.00E-06	8.76E-06	5.68E-05	3.98E-04	5.23E-03	3.43E-02
BI214	1.10E-05	1.38E-05	1.72E-05	3.09E-05	7.06E-05	2.44E-04	2.09E-03	1.27E-02	7.77E-02	7.43E-01	3.44E+00
PO210	1.10E-06	1.27E-06	1.63E-06	3.37E-06	1.03E-05	4.75E-05	6.89E-04	6.27E-03	5.27E-02	7.43E-01	3.44E+00
PO211	1.60E-10	2.02E-10	2.50E-10	4.45E-10	1.00E-09	3.34E-09	2.51E-08	1.28E-07	6.17E-07	5.00E-06	1.96E-05
PO212	4.60E+02	6.45E+02	5.86E+02	4.35E+02	2.61E+02	9.30E+01	2.99E+00	1.69E-02	7.85E-07	1.19E-07	4.64E-07
PO213	4.20E-08	5.33E-08	6.67E-08	1.23E-07	2.83E-07	9.78E-07	8.57E-06	5.56E-05	3.89E-04	5.11E-03	3.35E-02
PO214	1.10E-05	1.38E-05	1.72E-05	3.09E-05	7.06E-05	2.44E-04	2.09E-03	1.27E-02	7.77E-02	7.43E-01	3.44E+00
PO215	5.40E-08	6.75E-08	8.32E-08	1.48E-07	3.34E-07	1.11E-06	8.37E-06	4.25E-05	2.06E-04	1.67E-03	6.53E-03
PO216	7.20E+02	1.01E+03	9.14E+02	6.78E+02	4.07E+02	1.45E+02	4.66E+00	2.64E-02	1.22E-06	1.86E-07	7.23E-07
PO218	1.10E-05	1.38E-05	1.72E-05	3.09E-05	7.06E-05	2.44E-04	2.09E-03	1.27E-02	7.77E-02	7.43E-01	3.44E+00
AT217	4.30E-08	5.45E-08	6.82E-08	1.25E-07	2.89E-07	1.00E-06	8.76E-06	5.68E-05	3.98E-04	5.23E-03	3.43E-02
RN219	5.40E-08	6.75E-08	8.32E-08	1.48E-07	3.34E-07	1.11E-06	8.37E-06	4.25E-05	2.06E-04	1.67E-03	6.53E-03
RN220	7.20E+02	1.01E+03	9.14E+02	6.78E+02	4.07E+02	1.45E+02	4.66E+00	2.64E-02	1.22E-06	1.86E-07	7.23E-07
RN222	1.10E-05	1.38E-05	1.72E-05	3.09E-05	7.06E-05	2.44E-04	2.09E-03	1.27E-02	7.77E-02	7.43E-01	3.44E+00
FR221	4.30E-08	5.45E-08	6.82E-08	1.25E-07	2.89E-07	1.00E-06	8.76E-06	5.68E-05	3.98E-04	5.23E-03	3.43E-02
FR223	7.50E-10	9.43E-10	1.16E-09	2.07E-09	4.67E-09	1.56E-08	1.17E-07	5.95E-07	2.88E-06	2.33E-05	9.14E-05
RA223	5.40E-08	6.75E-08	8.32E-08	1.48E-07	3.34E-07	1.11E-06	8.37E-06	4.25E-05	2.06E-04	1.67E-03	6.53E-03
RA224	1.10E+03	1.01E+03	9.14E+02	6.78E+02	4.07E+02	1.45E+02	4.66E+00	2.64E-02	1.22E-06	1.86E-07	7.23E-07
RA225	4.30E-08	5.45E-08	6.82E-08	1.25E-07	2.89E-07	1.00E-06	8.76E-06	5.68E-05	3.98E-04	5.23E-03	3.43E-02
RA226	1.10E-05	1.38E-05	1.72E-05	3.09E-05	7.06E-05	2.44E-04	2.09E-03	1.27E-02	7.77E-02	7.43E-01	3.44E+00
RA228	8.20E+02	7.40E+02	6.67E+02	4.89E+02	2.92E+02	1.04E+02	4.66E+00	2.64E-02	8.82E-07	1.86E-07	7.23E-07
AC225	4.30E-08	5.45E-08	6.82E-08	1.25E-07	2.89E-07	1.00E-06	8.76E-06	5.68E-05	3.98E-04	5.23E-03	3.43E-02
AC227	5.40E-08	6.73E-08	8.31E-08	1.48E-07	3.33E-07	1.11E-06	8.37E-06	4.25E-05	2.06E-04	1.67E-03	6.53E-03
AC228	8.20E+02	7.40E+02	6.67E+02	4.89E+02	2.92E+02	1.04E+02	4.66E+00	2.64E-02	8.82E-07	1.86E-07	7.23E-07
TH227	5.30E-08	6.65E-08	8.20E-08	1.46E-07	3.29E-07	1.10E-06	8.25E-06	4.19E-05	2.03E-04	1.64E-03	6.44E-03
TH228	1.10E+03	1.00E+03	9.10E+02	6.77E+02	4.07E+02	1.45E+02	4.66E+00	2.64E-02	1.22E-06	1.86E-07	7.23E-07
TH229	4.30E-08	5.45E-08	6.82E-08	1.25E-07	2.89E-07	1.00E-06	8.76E-06	5.68E-05	3.98E-04	5.23E-03	3.43E-02
TH230	6.00E-03	7.08E-03	8.33E-03	1.31E-02	2.44E-02	5.88E-02	2.46E-01	7.83E-01	2.39E+00	8.74E+00	2.01E+01
TH231	3.60E-03	4.22E-03	4.84E-03	6.70E-03	9.81E-03	1.60E-02	3.46E-02	6.56E-02	1.27E-01	3.12E-01	6.15E-01
TH232	5.10E-11	6.06E-11	7.17E-11	1.14E-10	2.13E-10	5.21E-10	2.33E-09	8.28E-09	3.11E-08	1.86E-07	7.23E-07
PA231	4.40E-07	5.23E-07	6.19E-07	9.86E-07	1.86E-06	4.59E-06	2.06E-05	7.36E-05	2.77E-04	1.67E-03	6.53E-03
PA233	4.20E+00	4.91E+00	5.63E+00	7.75E+00	1.13E+01	1.82E+01	3.84E+01	7.01E+01	1.26E+02	2.49E+02	3.59E+02
U 233	1.10E-04	1.32E-04	1.57E-04	2.48E-04	4.55E-04	1.10E-03	4.82E-03	1.67E-02	5.99E-02	3.12E-01	9.92E-01
U 234	1.10E+02	1.29E+02	1.48E+02	2.05E+02	2.95E+02	4.67E+02	9.06E+02	1.44E+03	2.05E+03	2.50E+03	2.54E+03
U 235	3.60E-03	4.22E-03	4.84E-03	6.70E-03	9.81E-03	1.60E-02	3.46E-02	6.56E-02	1.27E-01	3.12E-01	6.15E-01
U 236	1.80E-01	2.10E-01	2.39E-01	3.28E-01	4.77E-01	7.74E-01	1.67E+00	3.16E+00	6.11E+00	1.48E+01	2.87E+01
NP237	4.20E+00	4.91E+00	5.62E+00	7.75E+00	1.13E+01	1.82E+01	3.84E+01	7.01E+01	1.26E+02	2.49E+02	3.59E+02
PU238	6.80E+06	6.75E+06	6.70E+06	6.54E+06	6.29E+06	5.81E+06	4.58E+06	3.09E+06	1.40E+06	1.31E+05	2.53E+03

PU239	6.30E+05	6.30E+05	6.30E+05	6.30E+05	6.30E+05	6.30E+05	6.30E+05	6.29E+05	6.28E+05	6.27E+05	6.21E+05	6.12E+05
PU240	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.01E+06	1.01E+06	1.01E+06	1.00E+06	9.93E+05	9.62E+05	9.12E+05
AM241	2.20E+06	2.20E+06	2.19E+06	2.18E+06	2.17E+06	2.13E+06	2.03E+06	1.87E+06	1.60E+06	9.87E+05	4.43E+05	
CM242	4.30E+04	9.12E+03	1.93E+03	1.84E+01	7.90E-03	1.45E-09	9.00E-30	0.0	0.0	0.0	0.0	
CM244	5.00E+06	4.81E+06	4.63E+06	4.13E+06	3.41E+06	2.33E+06	7.38E+05	1.09E+05	2.37E+03	2.45E-02	1.20E-10	
TOTAL	1.57E+07	1.54E+07	1.52E+07	1.45E+07	1.35E+07	1.19E+07	8.99E+06	6.71E+06	4.62E+06	2.70E+06	1.97E+06	

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP I, 15/10

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	4.29E-21	5.34E-21	6.58E-21	1.17E-20	2.64E-20	8.80E-20	6.62E-19	3.36E-18	1.63E-17	1.32E-16	5.17E-16
TL208	1.65E-10	2.30E-10	2.09E-10	1.55E-10	9.30E-11	3.31E-11	1.06E-12	6.03E-15	2.80E-19	4.25E-20	1.65E-19
TL209	4.31E-22	5.38E-22	6.74E-22	1.24E-21	2.85E-21	9.88E-21	8.66E-20	5.61E-19	3.93E-18	5.17E-17	3.39E-16
PB209	1.34E-21	1.69E-21	2.12E-21	3.89E-21	8.98E-21	3.11E-20	2.72E-19	1.77E-18	1.24E-17	1.63E-16	1.07E-15
PB210	6.89E-21	9.05E-21	1.17E-20	2.38E-20	6.47E-20	2.98E-19	4.31E-18	3.92E-17	3.30E-16	4.66E-15	2.16E-14
PB211	4.38E-21	5.46E-21	6.74E-21	1.20E-20	2.70E-20	9.01E-20	6.78E-19	3.44E-18	1.67E-17	1.35E-16	5.29E-16
PB212	5.66E-11	5.18E-11	4.70E-11	3.49E-11	2.10E-11	7.47E-12	2.40E-13	1.36E-15	6.30E-20	9.58E-21	3.72E-20
PB214	9.49E-19	1.19E-18	1.48E-18	2.66E-18	6.08E-18	2.11E-17	1.80E-16	1.09E-15	6.69E-15	6.41E-14	2.97E-13
BI210	6.86E-20	9.01E-20	1.17E-19	2.37E-19	6.44E-19	2.96E-18	4.29E-17	3.90E-16	3.28E-15	4.63E-14	2.15E-13
BI211	5.82E-20	7.27E-20	8.97E-20	1.60E-19	3.60E-19	1.20E-18	9.02E-18	4.58E-17	2.22E-16	1.80E-15	7.04E-15
BI212	3.31E-10	4.62E-10	4.20E-10	3.12E-10	1.87E-10	6.67E-11	2.14E-12	1.21E-14	5.63E-19	8.55E-20	3.32E-19
BI213	4.89E-21	6.19E-21	7.75E-21	1.42E-20	3.28E-20	1.14E-19	9.95E-19	6.45E-18	4.52E-17	5.94E-16	3.89E-15
BI214	3.81E-18	4.79E-18	5.94E-18	1.07E-17	2.44E-17	8.46E-17	7.23E-16	4.38E-15	2.69E-14	2.57E-13	1.19E-12
PO210	9.53E-19	1.10E-18	1.41E-18	2.92E-18	8.95E-18	4.12E-17	5.97E-16	5.43E-15	4.56E-14	6.44E-13	2.98E-12
PO211	1.95E-22	2.46E-22	3.04E-22	5.41E-22	1.22E-21	4.06E-21	3.05E-20	1.55E-19	7.51E-19	6.08E-18	2.38E-17
PO212	6.60E-10	9.25E-10	8.41E-10	6.24E-10	3.75E-10	1.33E-10	4.28E-12	2.43E-14	1.13E-18	1.71E-19	6.65E-19
PO213	5.75E-20	7.29E-20	9.13E-20	1.68E-19	3.86E-19	1.34E-18	1.17E-17	7.60E-17	5.32E-16	6.99E-15	4.58E-14
PO214	1.38E-17	1.74E-17	2.15E-17	3.87E-17	8.86E-17	3.07E-16	2.62E-15	1.59E-14	9.75E-14	9.33E-13	4.32E-12
PO215	6.51E-20	8.14E-20	1.00E-19	1.79E-19	4.02E-19	1.34E-18	1.01E-17	5.13E-17	2.48E-16	2.01E-15	7.88E-15
PO216	7.71E-10	1.08E-09	9.78E-10	7.26E-10	4.36E-10	1.55E-10	4.98E-12	2.83E-14	1.31E-18	1.99E-19	7.74E-19
PO218	1.08E-17	1.35E-17	1.68E-17	3.02E-17	6.91E-17	2.39E-16	2.04E-15	1.24E-14	7.61E-14	7.28E-13	3.37E-12
AT217	4.96E-20	6.29E-20	7.87E-20	1.44E-19	3.33E-19	1.15E-18	1.01E-17	6.55E-17	4.59E-16	6.03E-15	3.95E-14
RN219	6.01E-20	7.51E-20	9.26E-20	1.65E-19	3.71E-19	1.24E-18	9.31E-18	4.73E-17	2.29E-16	1.85E-15	7.27E-15
RN220	7.39E-10	1.03E-09	9.38E-10	6.96E-10	4.18E-10	1.49E-10	4.78E-12	2.71E-14	1.26E-18	1.91E-19	7.42E-19
RN222	9.86E-18	1.24E-17	1.54E-17	2.76E-17	6.32E-17	2.19E-16	1.87E-15	1.13E-14	6.95E-14	6.66E-13	3.08E-12
FR221	4.45E-20	5.64E-20	7.06E-20	1.30E-19	2.99E-19	1.04E-18	9.06E-18	5.88E-17	4.11E-16	5.41E-15	3.55E-14
FR223	5.27E-23	6.62E-23	8.16E-23	1.45E-22	3.28E-22	1.09E-21	8.22E-21	4.18E-20	2.02E-19	1.64E-18	6.42E-18
RA223	5.17E-20	6.46E-20	7.97E-20	1.42E-19	3.20E-19	1.07E-18	8.02E-18	4.07E-17	1.97E-16	1.60E-15	6.26E-15
RA224	1.02E-09	9.33E-10	8.48E-10	6.29E-10	3.78E-10	1.35E-10	4.32E-12	2.45E-14	1.14E-18	1.73E-19	6.71E-19
RA225	8.15E-22	1.03E-21	1.29E-21	2.37E-21	5.47E-21	1.90E-20	1.66E-19	1.08E-18	7.54E-18	9.91E-17	6.50E-16
RA226	8.59E-18	1.08E-17	1.34E-17	2.41E-17	5.51E-17	1.91E-16	1.63E-15	9.88E-15	6.06E-14	5.80E-13	2.69E-12
RA228	1.71E-12	1.54E-12	1.39E-12	1.02E-12	6.07E-13	2.16E-13	9.70E-15	5.50E-17	1.84E-21	3.88E-22	1.51E-21
AC225	4.09E-20	5.18E-20	6.49E-20	1.19E-19	2.75E-19	9.51E-19	8.33E-18	5.40E-17	3.78E-16	4.97E-15	3.26E-14
AC227	7.07E-22	8.81E-22	1.09E-21	1.94E-21	4.36E-21	1.45E-20	1.10E-19	5.56E-19	2.69E-18	2.18E-17	8.55E-17
AC228	1.92E-10	1.73E-10	1.56E-10	1.14E-10	6.81E-11	2.42E-11	1.09E-12	6.17E-15	2.06E-19	4.35E-20	1.69E-19
TH227	5.22E-20	6.55E-20	8.08E-20	1.44E-19	3.24E-19	1.08E-18	8.13E-18	4.13E-17	2.00E-16	1.62E-15	6.34E-15
TH228	9.73E-10	8.86E-10	8.05E-10	5.98E-10	3.60E-10	1.28E-10	4.12E-12	2.34E-14	1.08E-18	1.65E-19	6.40E-19
TH229	3.56E-20	4.51E-20	5.65E-20	1.04E-19	2.39E-19	8.28E-19	7.26E-18	4.70E-17	3.29E-16	4.33E-15	2.84E-14
TH230	4.59E-15	5.41E-15	6.37E-15	1.00E-14	1.86E-14	4.49E-14	1.88E-13	5.98E-13	1.82E-12	6.68E-12	1.53E-11
TH231	5.46E-17	6.41E-17	7.35E-17	1.02E-16	1.49E-16	2.43E-16	5.25E-16	9.95E-16	1.93E-15	4.73E-15	9.34E-15
TH232	3.34E-23	3.96E-23	4.69E-23	7.43E-23	1.39E-22	3.41E-22	1.52E-21	5.41E-21	2.04E-20	1.22E-19	4.73E-19
PA231	3.63E-19	4.32E-19	5.11E-19	8.13E-19	1.53E-18	3.79E-18	1.70E-17	6.07E-17	2.29E-16	1.37E-15	5.39E-15
PA233	2.58E-13	3.01E-13	3.45E-13	4.75E-13	6.91E-13	1.12E-12	2.36E-12	4.30E-12	7.74E-12	1.53E-11	2.20E-11
U 233	8.65E-17	1.04E-16	1.24E-16	1.95E-16	3.58E-16	8.64E-16	3.79E-15	1.31E-14	4.71E-14	2.46E-13	7.80E-13
U 234	8.56E-11	1.01E-10	1.15E-10	1.59E-10	2.30E-10	3.63E-10	7.05E-10	1.12E-09	1.59E-09	1.95E-09	1.98E-09
U 235	2.70E-15	3.16E-15	3.63E-15	5.03E-15	7.35E-15	1.20E-14	2.59E-14	4.92E-14	9.55E-14	2.34E-13	4.61E-13
U 236	1.32E-13	1.54E-13	1.75E-13	2.40E-13	3.49E-13	5.67E-13	1.22E-12	2.31E-12	4.47E-12	1.08E-11	2.10E-11
NP237	3.34E-12	3.90E-12	4.47E-12	6.16E-12	8.95E-12	1.45E-11	3.05E-11	5.56E-11	1.00E-10	1.98E-10	2.85E-10
PU238	6.10E-06	6.05E-06	6.00E-06	5.86E-06	5.63E-06	5.21E-06	4.11E-06	2.77E-06	1.26E-06	1.18E-07	2.27E-09

PU239	5.30E-07	5.29E-07	5.29E-07	5.29E-07	5.29E-07	5.29E-07	5.29E-07	5.29E-07	5.28E-07	5.26E-07	5.22E-07	5.14E-07
PU240	8.42E-07	8.43E-07	8.43E-07	8.44E-07	8.45E-07	8.47E-07	8.48E-07	8.45E-07	8.36E-07	8.10E-07	7.68E-07	
AM241	1.99E-06	1.98E-06	1.98E-06	1.97E-06	1.96E-06	1.93E-06	1.83E-06	1.69E-06	1.44E-06	8.92E-07	4.00E-07	
CM242	4.28E-08	9.08E-09	1.93E-09	1.84E-11	7.87E-15	1.45E-21	8.97E-42	0.0	0.0	0.0	0.0	
CM244	4.73E-06	4.55E-06	4.38E-06	3.91E-06	3.23E-06	2.20E-06	6.98E-07	1.03E-07	2.24E-09	2.32E-14	1.14E-22	
TOTAL	1.42E-05	1.40E-05	1.37E-05	1.31E-05	1.22E-05	1.07E-05	8.02E-06	5.94E-06	4.07E-06	2.34E-06	1.69E-06	

FISSION PRODUCTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP I, 15/10

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	1.30E+12	1.23E+12	1.16E+12	9.82E+11	7.42E+11	4.23E+11	7.86E+10	4.75E+09	1.74E+07	8.48E-01	5.53E-13
NB 94	2.80E+05	2.80E+05	2.80E+05	2.80E+05	2.80E+05	2.80E+05	2.80E+05	2.79E+05	2.78E+05	2.75E+05	2.71E+05
NB 95	1.50E+03	1.12E+00	8.35E-04	3.47E-13	8.01E-29	0.0	0.0	0.0	0.0	0.0	0.0
RU106	4.30E+02	2.16E+02	1.09E+02	1.38E+01	4.45E-01	4.59E-04	5.07E-13	5.98E-28	0.0	0.0	0.0
RH106	4.30E+02	2.16E+02	1.09E+02	1.38E+01	4.45E-01	4.59E-04	5.07E-13	5.98E-28	0.0	0.0	0.0
AG108	3.10E+02	3.90E+02	3.88E+02	3.81E+02	3.71E+02	3.51E+02	2.98E+02	2.27E+02	1.32E+02	2.56E+01	1.67E+00
AG108M	4.40E+03	4.38E+03	4.35E+03	4.28E+03	4.17E+03	3.95E+03	3.35E+03	2.55E+03	1.48E+03	2.88E+02	1.88E+01
SB125	1.50E+02	1.17E+02	9.08E+01	4.28E+01	1.22E+01	9.90E-01	5.31E-04	1.88E-09	2.35E-20	0.0	0.0
TE125M	1.10E+02	2.94E+01	2.22E+01	1.04E+01	2.97E+00	2.42E-01	1.30E-04	4.58E-10	5.73E-21	0.0	0.0
CS134	2.70E+02	1.93E+02	1.38E+02	5.03E+01	9.37E+00	3.25E-01	1.36E-05	6.85E-13	1.74E-27	0.0	0.0
CS137	3.60E+03	3.52E+03	3.44E+03	3.21E+03	2.86E+03	2.27E+03	1.13E+03	3.57E+02	3.55E+01	3.47E-02	3.34E-07
BA137M	3.40E+03	3.33E+03	3.25E+03	3.04E+03	2.70E+03	2.15E+03	1.07E+03	3.38E+02	3.36E+01	3.28E-02	3.16E-07
SM148	0.0	0.0	0.0	0.0	0.0	0.0	2.09E-25	6.57E-25	1.60E-24	4.46E-24	9.21E-24
EU152	2.30E+03	2.19E+03	2.08E+03	1.78E+03	1.38E+03	8.31E+02	1.80E+02	1.41E+01	8.63E-02	1.98E-08	1.71E-19
EU154	2.80E+03	2.58E+03	2.38E+03	1.87E+03	1.25E+03	5.59E+02	4.98E+01	8.87E-01	2.81E-04	8.91E-15	2.84E-32
EU155	4.80E+02	4.18E+02	3.63E+02	2.39E+02	1.19E+02	2.94E+01	4.44E-01	4.10E-04	3.50E-10	2.18E-28	0.0
GD152	2.90E-11	3.30E-11	3.68E-11	4.72E-11	6.12E-11	8.06E-11	1.03E-10	1.09E-10	1.10E-10	1.10E-10	1.10E-10
TOTAL	1.30E+12	1.23E+12	1.16E+12	9.82E+11	7.42E+11	4.23E+11	7.86E+10	4.75E+09	1.77E+07	2.76E+05	2.71E+05

FISSION PRODUCTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP I, 15/10

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	1.19E-03	1.12E-03	1.06E-03	8.97E-04	6.78E-04	3.87E-04	7.18E-05	4.34E-06	1.59E-08	7.74E-16	5.05E-28
NB 94	7.71E-08	7.71E-08	7.71E-08	7.71E-08	7.71E-08	7.71E-08	7.70E-08	7.69E-08	7.66E-08	7.58E-08	7.46E-08
NB 95	1.95E-10	1.45E-13	1.08E-16	4.49E-26	1.04E-41	0.0	0.0	0.0	0.0	0.0	0.0
RU106	6.89E-13	3.47E-13	1.74E-13	2.22E-14	7.12E-16	7.36E-19	8.12E-28	9.58E-43	0.0	0.0	0.0
RH106	1.12E-10	5.61E-11	2.82E-11	3.58E-12	1.15E-13	1.19E-16	1.31E-25	1.55E-40	0.0	0.0	0.0
AG108	3.12E-11	3.92E-11	3.90E-11	3.84E-11	3.74E-11	3.54E-11	3.00E-11	2.29E-11	1.32E-11	2.58E-12	1.68E-13
AG108M	1.16E-09	1.15E-09	1.14E-09	1.13E-09	1.10E-09	1.04E-09	8.81E-10	6.71E-10	3.89E-10	7.56E-11	4.94E-12
SB125	1.27E-11	9.86E-12	7.67E-12	3.61E-12	1.03E-12	8.37E-14	4.48E-17	1.59E-22	1.98E-33	0.0	0.0
TE125M	2.50E-12	6.68E-13	5.04E-13	2.37E-13	6.76E-14	5.49E-15	2.94E-18	1.04E-23	1.30E-34	0.0	0.0
CS134	7.43E-11	5.31E-11	3.79E-11	1.38E-11	2.58E-12	8.95E-14	3.74E-18	1.88E-25	4.78E-40	0.0	0.0
CS137	1.08E-10	1.05E-10	1.03E-10	9.59E-11	8.55E-11	6.78E-11	3.39E-11	1.07E-11	1.06E-12	1.04E-15	1.00E-20
BA137M	3.61E-10	3.53E-10	3.45E-10	3.22E-10	2.87E-10	2.28E-10	1.14E-10	3.59E-11	3.56E-12	3.48E-15	3.36E-20
SM148	0.0	0.0	0.0	0.0	0.0	0.0	6.76E-38	2.12E-37	5.17E-37	1.44E-36	2.97E-36
EU152	4.71E-10	4.48E-10	4.26E-10	3.65E-10	2.83E-10	1.70E-10	3.69E-11	2.89E-12	1.77E-14	4.07E-21	3.51E-32
EU154	6.77E-10	6.25E-10	5.76E-10	4.53E-10	3.03E-10	1.35E-10	1.20E-11	2.14E-13	6.79E-17	2.15E-27	6.86E-45
EU155	9.44E-12	8.21E-12	7.14E-12	4.69E-12	2.33E-12	5.77E-13	8.72E-15	8.06E-18	6.88E-24	4.28E-42	0.0
GD152	1.02E-23	1.16E-23	1.30E-23	1.66E-23	2.16E-23	2.84E-23	3.64E-23	3.85E-23	3.86E-23	3.86E-23	3.86E-23
TOTAL	1.19E-03	1.12E-03	1.06E-03	8.97E-04	6.78E-04	3.87E-04	7.19E-05	4.42E-06	9.29E-08	7.59E-08	7.46E-08

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

	RADIOACTIVITY ,BECQUEREL										
TOTAL	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
	2.48E+13	2.23E+13	2.01E+13	1.50E+13	9.85E+12	5.50E+12	3.06E+12	2.03E+12	9.57E+11	1.03E+11	6.07E+09
	THERMAL POWER ,WATTS										
TOTAL	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
	7.98E+00	7.00E+00	6.14E+00	4.15E+00	2.17E+00	6.12E-01	4.35E-02	2.24E-02	1.09E-02	1.72E-03	6.75E-04

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP II, 16/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	2.40E+09	2.40E+09	2.40E+09	2.40E+09	2.40E+09	2.40E+09	2.39E+09	2.37E+09	2.34E+09	2.26E+09	2.13E+09
NA 22	7.20E+06	5.52E+06	4.23E+06	1.90E+06	5.02E+05	3.50E+04	1.19E+01	1.95E-05	5.29E-17	0.0	0.0
CL 36	2.20E+05	2.20E+05	2.20E+05	2.20E+05	2.20E+05	2.20E+05	2.20E+05	2.20E+05	2.20E+05	2.20E+05	2.20E+05
V 49	9.40E+02	4.37E+02	2.03E+02	2.03E+01	4.39E-01	2.05E-04	2.07E-14	4.57E-31	0.0	0.0	0.0
MN 54	3.00E+09	1.34E+09	5.94E+08	5.23E+07	9.11E+05	2.77E+02	7.75E-09	2.00E-26	0.0	0.0	0.0
FE 55	1.60E+11	1.23E+11	9.39E+10	4.22E+10	1.11E+10	7.75E+08	2.61E+05	4.25E-01	1.13E-12	0.0	0.0
CO 58	1.20E+06	3.36E+04	9.40E+02	2.06E-02	3.53E-10	1.04E-25	0.0	0.0	0.0	0.0	0.0
CO 60	5.40E+10	4.74E+10	4.15E+10	2.80E+10	1.45E+10	3.89E+09	7.53E+07	1.05E+05	2.04E-01	1.50E-18	0.0
NI 59	9.60E+07	9.60E+07	9.60E+07	9.60E+07	9.60E+07	9.60E+07	9.60E+07	9.60E+07	9.59E+07	9.56E+07	9.52E+07
NI 63	9.20E+09	9.13E+09	9.07E+09	8.86E+09	8.54E+09	7.92E+09	6.32E+09	4.33E+09	2.04E+09	2.13E+08	4.93E+06
ZN 65	2.20E+08	7.80E+07	2.76E+07	1.23E+06	6.84E+03	2.13E-01	6.38E-15	0.0	0.0	0.0	0.0
TA182	6.70E+07	7.42E+06	8.21E+05	1.11E+03	1.85E-02	5.12E-12	0.0	0.0	0.0	0.0	0.0
TOTAL	2.29E+11	1.83E+11	1.48E+11	8.16E+10	3.67E+10	1.51E+10	8.87E+09	6.80E+09	4.48E+09	2.57E+09	2.23E+09

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 16/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	1.90E-05	1.90E-05	1.90E-05	1.90E-05	1.90E-05	1.90E-05	1.89E-05	1.88E-05	1.86E-05	1.79E-05	1.69E-05
NA 22	2.75E-06	2.11E-06	1.62E-06	7.27E-07	1.92E-07	1.34E-08	4.54E-12	7.47E-18	2.02E-29	0.0	0.0
CL 36	8.70E-09	8.70E-09	8.70E-09	8.70E-09	8.70E-09	8.70E-09	8.70E-09	8.70E-09	8.69E-09	8.69E-09	8.68E-09
V 49	6.48E-13	3.01E-13	1.40E-13	1.40E-14	3.02E-16	1.41E-19	1.43E-29	3.15E-46	0.0	0.0	0.0
MN 54	4.04E-04	1.80E-04	7.99E-05	7.04E-06	1.23E-07	3.72E-11	1.04E-21	2.69E-39	0.0	0.0	0.0
FE 55	5.95E-03	4.56E-03	3.49E-03	1.57E-03	4.14E-04	2.88E-05	9.70E-09	1.58E-14	4.20E-26	0.0	0.0
CO 58	1.94E-07	5.44E-09	1.52E-10	3.33E-15	5.71E-23	1.68E-38	0.0	0.0	0.0	0.0	0.0
CO 60	2.25E-02	1.97E-02	1.73E-02	1.17E-02	6.04E-03	1.62E-03	3.14E-05	4.38E-08	8.52E-14	6.27E-31	0.0
NI 59	1.65E-05	1.65E-05	1.65E-05	1.65E-05	1.65E-05	1.65E-05	1.65E-05	1.65E-05	1.65E-05	1.65E-05	1.64E-05
NI 63	9.88E-05	9.81E-05	9.73E-05	9.51E-05	9.16E-05	8.50E-05	6.78E-05	4.65E-05	2.19E-05	2.29E-06	5.29E-08
ZN 65	2.08E-05	7.38E-06	2.61E-06	1.16E-07	6.48E-10	2.01E-14	6.04E-28	0.0	0.0	0.0	0.0
TA182	1.61E-05	1.79E-06	1.98E-07	2.68E-10	4.46E-15	1.23E-24	0.0	0.0	0.0	0.0	0.0
TOTAL	2.90E-02	2.46E-02	2.10E-02	1.34E-02	6.58E-03	1.77E-03	1.35E-04	8.19E-05	5.70E-05	3.67E-05	3.33E-05

ACTINIDES

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP II, 16/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	2.20E-04	2.50E-04	2.79E-04	3.65E-04	5.00E-04	7.46E-04	1.36E-03	2.23E-03	3.87E-03	9.67E-03	1.96E-02
TL208	4.60E+04	1.07E+03	9.90E+02	7.55E+02	4.61E+02	1.65E+02	5.49E+00	1.43E-01	4.31E-02	2.40E-03	1.99E-05
TL209	2.30E-08	2.87E-08	3.34E-08	4.90E-08	7.95E-08	1.57E-07	5.33E-07	1.69E-06	6.38E-06	4.62E-05	2.28E-04
PB209	1.10E-06	1.30E-06	1.52E-06	2.23E-06	3.61E-06	7.15E-06	2.42E-05	7.67E-05	2.90E-04	2.10E-03	1.04E-02
PB210	1.60E-07	2.10E-07	2.72E-07	5.55E-07	1.53E-06	7.24E-06	1.09E-04	1.00E-03	8.48E-03	1.20E-01	5.56E-01
PB211	2.20E-04	2.50E-04	2.80E-04	3.66E-04	5.01E-04	7.49E-04	1.37E-03	2.24E-03	3.89E-03	9.69E-03	1.96E-02
PB212	3.20E+03	2.99E+03	2.76E+03	2.10E+03	1.28E+03	4.61E+02	1.53E+01	3.98E-01	1.20E-01	6.68E-03	5.54E-05
PB214	1.60E-06	2.01E-06	2.49E-06	4.54E-06	1.06E-05	3.78E-05	3.31E-04	2.03E-03	1.25E-02	1.20E-01	5.56E-01
BI210	1.60E-07	2.10E-07	2.72E-07	5.55E-07	1.53E-06	7.24E-06	1.09E-04	1.00E-03	8.48E-03	1.20E-01	5.56E-01
BI211	2.20E-04	2.50E-04	2.80E-04	3.66E-04	5.01E-04	7.49E-04	1.37E-03	2.24E-03	3.89E-03	9.69E-03	1.96E-02
BI212	2.30E+03	2.99E+03	2.76E+03	2.10E+03	1.28E+03	4.61E+02	1.53E+01	3.98E-01	1.20E-01	6.68E-03	5.54E-05
BI213	1.10E-06	1.30E-06	1.52E-06	2.23E-06	3.61E-06	7.15E-06	2.42E-05	7.67E-05	2.90E-04	2.10E-03	1.04E-02
BI214	1.60E-06	2.01E-06	2.49E-06	4.54E-06	1.06E-05	3.78E-05	3.31E-04	2.03E-03	1.25E-02	1.20E-01	5.56E-01
PO210	1.60E-07	1.83E-07	2.37E-07	4.89E-07	1.53E-06	7.24E-06	1.09E-04	1.00E-03	8.48E-03	1.20E-01	5.56E-01
PO211	6.50E-07	7.51E-07	8.40E-07	1.10E-06	1.50E-06	2.25E-06	4.10E-06	6.71E-06	1.17E-05	2.91E-05	5.88E-05
PO212	1.50E+03	1.92E+03	1.77E+03	1.35E+03	8.24E+02	2.95E+02	9.79E+00	2.55E-01	7.69E-02	4.28E-03	3.55E-05
PO213	1.00E-06	1.28E-06	1.49E-06	2.18E-06	3.53E-06	6.99E-06	2.37E-05	7.50E-05	2.84E-04	2.05E-03	1.01E-02
PO214	1.60E-06	2.01E-06	2.49E-06	4.54E-06	1.06E-05	3.78E-05	3.31E-04	2.03E-03	1.25E-02	1.20E-01	5.56E-01
PO215	2.20E-04	2.50E-04	2.80E-04	3.66E-04	5.01E-04	7.49E-04	1.37E-03	2.24E-03	3.89E-03	9.69E-03	1.96E-02
PO216	2.30E+03	2.99E+03	2.76E+03	2.10E+03	1.28E+03	4.61E+02	1.53E+01	3.98E-01	1.20E-01	6.68E-03	5.54E-05
PO218	1.60E-06	2.01E-06	2.49E-06	4.54E-06	1.06E-05	3.78E-05	3.31E-04	2.03E-03	1.25E-02	1.20E-01	5.56E-01
AT217	1.10E-06	1.30E-06	1.52E-06	2.23E-06	3.61E-06	7.15E-06	2.42E-05	7.67E-05	2.90E-04	2.10E-03	1.04E-02
RN219	2.20E-04	2.50E-04	2.80E-04	3.66E-04	5.01E-04	7.49E-04	1.37E-03	2.24E-03	3.89E-03	9.69E-03	1.96E-02
RN220	2.30E+03	2.99E+03	2.76E+03	2.10E+03	1.28E+03	4.61E+02	1.53E+01	3.98E-01	1.20E-01	6.68E-03	5.54E-05
RN222	1.60E-06	2.01E-06	2.49E-06	4.54E-06	1.06E-05	3.78E-05	3.31E-04	2.03E-03	1.25E-02	1.20E-01	5.56E-01
FR221	1.10E-06	1.30E-06	1.52E-06	2.23E-06	3.61E-06	7.15E-06	2.42E-05	7.67E-05	2.90E-04	2.10E-03	1.04E-02
FR223	3.00E-06	3.50E-06	3.91E-06	5.11E-06	7.01E-06	1.05E-05	1.91E-05	3.13E-05	5.44E-05	1.36E-04	2.75E-04
RA223	2.20E-04	2.50E-04	2.80E-04	3.66E-04	5.01E-04	7.49E-04	1.37E-03	2.24E-03	3.89E-03	9.69E-03	1.96E-02
RA224	3.20E+03	2.99E+03	2.76E+03	2.10E+03	1.28E+03	4.61E+02	1.53E+01	3.98E-01	1.20E-01	6.68E-03	5.54E-05
RA225	1.10E-06	1.30E-06	1.52E-06	2.23E-06	3.61E-06	7.15E-06	2.42E-05	7.67E-05	2.90E-04	2.10E-03	1.04E-02
RA226	1.60E-06	2.01E-06	2.49E-06	4.54E-06	1.06E-05	3.78E-05	3.31E-04	2.03E-03	1.25E-02	1.20E-01	5.56E-01
RA228	2.60E+03	2.35E+03	2.12E+03	1.55E+03	9.25E+02	3.29E+02	1.48E+01	8.38E-02	2.89E-06	4.97E-07	1.12E-06
AC225	1.10E-06	1.30E-06	1.52E-06	2.23E-06	3.61E-06	7.15E-06	2.42E-05	7.67E-05	2.90E-04	2.10E-03	1.04E-02
AC227	2.20E-04	2.50E-04	2.79E-04	3.65E-04	5.01E-04	7.48E-04	1.37E-03	2.24E-03	3.89E-03	9.69E-03	1.96E-02
AC228	2.60E+03	2.35E+03	2.12E+03	1.55E+03	9.25E+02	3.29E+02	1.48E+01	8.38E-02	2.89E-06	4.97E-07	1.12E-06
TH227	2.10E-04	2.47E-04	2.76E-04	3.61E-04	4.94E-04	7.38E-04	1.35E-03	2.21E-03	3.83E-03	9.56E-03	1.93E-02
TH228	3.20E+03	2.98E+03	2.75E+03	2.10E+03	1.28E+03	4.60E+02	1.53E+01	3.98E-01	1.20E-01	6.68E-03	5.54E-05
TH229	1.10E-06	1.30E-06	1.52E-06	2.23E-06	3.61E-06	7.15E-06	2.42E-05	7.67E-05	2.90E-04	2.10E-03	1.04E-02
TH230	8.60E-04	1.03E-03	1.22E-03	1.97E-03	3.76E-03	9.26E-03	3.94E-02	1.26E-01	3.85E-01	1.41E+00	3.25E+00
TH231	3.90E+03	7.41E-01	7.41E-01	7.42E-01	7.43E-01	7.46E-01	7.55E-01	7.69E-01	7.97E-01	8.82E-01	1.02E+00
TH232	8.00E-09	8.84E-09	9.68E-09	1.22E-08	1.64E-08	2.49E-08	5.07E-08	9.47E-08	1.87E-07	4.97E-07	1.12E-06
TH234	2.10E+04	2.06E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01
PA231	8.20E-04	1.18E-03	1.20E-03	1.25E-03	1.32E-03	1.48E-03	1.96E-03	2.76E-03	4.41E-03	9.69E-03	1.96E-02
PA233	2.40E+01	2.41E+01	2.41E+01	2.43E+01	2.47E+01	2.56E+01	2.86E+01	3.38E+01	4.32E+01	6.39E+01	8.24E+01
PA234M	2.10E+04	2.06E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01
PA234	2.80E+01	2.68E-02	2.60E-02	2.60E-02	2.60E-02	2.60E-02	2.60E-02	2.60E-02	2.60E-02	2.60E-02	2.60E-02
U 232	8.00E-01	7.93E-01	7.85E-01	7.63E-01	7.27E-01	6.60E-01	4.95E-01	3.06E-01	1.17E-01	6.50E-03	5.28E-05
U 233	2.10E-03	2.22E-03	2.33E-03	2.66E-03	3.20E-03	4.30E-03	7.84E-03	1.47E-02	3.15E-02	1.03E-01	2.65E-01
U 234	1.70E+01	2.01E+01	2.32E+01	3.23E+01	4.70E+01	7.48E+01	1.46E+02	2.33E+02	3.31E+02	4.05E+02	4.12E+02

U 235	7.40E-01	7.41E-01	7.41E-01	7.42E-01	7.43E-01	7.46E-01	7.55E-01	7.69E-01	7.97E-01	8.82E-01	1.02E+00
U 236	1.70E+01	1.70E+01	1.70E+01	1.71E+01	1.71E+01	1.72E+01	1.76E+01	1.82E+01	1.93E+01	2.26E+01	2.80E+01
U 237	4.90E+01	1.31E+02	1.25E+02	1.08E+02	8.51E+01	5.26E+01	1.24E+01	1.12E+00	9.09E-03	4.88E-09	1.73E-19
U 238	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01
U 240	1.70E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05
NP237	2.40E+01	2.41E+01	2.41E+01	2.43E+01	2.47E+01	2.56E+01	2.86E+01	3.38E+01	4.32E+01	6.39E+01	8.24E+01
NP238	8.20E-01	1.64E+00	1.64E+00	1.61E+00	1.58E+00	1.51E+00	1.31E+00	1.05E+00	6.63E-01	1.69E-01	1.73E-02
NP239	9.50E+02	1.90E+03	1.90E+03	1.90E+03	1.90E+03	1.90E+03	1.89E+03	1.88E+03	1.87E+03	1.81E+03	1.73E+03
NP240M	1.70E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05
PU238	1.10E+06	1.09E+06	1.08E+06	1.06E+06	1.02E+06	9.41E+05	7.43E+05	5.00E+05	2.27E+05	2.13E+04	4.16E+02
PU239	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.90E+05	2.89E+05	2.88E+05	2.86E+05	2.82E+05
PU240	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.90E+05	3.89E+05	3.87E+05	3.83E+05	3.71E+05	3.51E+05
PU241	5.50E+06	5.24E+06	5.00E+06	4.33E+06	3.40E+06	2.10E+06	4.96E+05	4.47E+04	3.63E+02	1.95E-04	6.91E-15
PU242	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02	1.60E+02
PU244	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05
AM241	1.80E+05	1.88E+05	1.96E+05	2.18E+05	2.47E+05	2.86E+05	3.24E+05	3.13E+05	2.68E+05	1.66E+05	7.44E+04
AM242M	3.30E+02	3.29E+02	3.27E+02	3.23E+02	3.15E+02	3.01E+02	2.63E+02	2.09E+02	1.33E+02	3.38E+01	3.46E+00
AM242	1.60E+02	3.27E+02	3.26E+02	3.21E+02	3.14E+02	3.00E+02	2.62E+02	2.08E+02	1.32E+02	3.36E+01	3.44E+00
AM243	1.90E+03	1.90E+03	1.90E+03	1.90E+03	1.90E+03	1.90E+03	1.89E+03	1.88E+03	1.87E+03	1.81E+03	1.73E+03
CM242	3.10E+05	6.60E+04	1.42E+04	3.99E+02	2.60E+02	2.48E+02	2.16E+02	1.72E+02	1.09E+02	2.78E+01	2.85E+00
CM243	1.20E+03	1.17E+03	1.14E+03	1.06E+03	9.41E+02	7.38E+02	3.56E+02	1.06E+02	9.28E+00	6.30E-03	3.31E-08
CM244	2.20E+05	2.12E+05	2.04E+05	1.82E+05	1.50E+05	1.02E+05	3.25E+04	4.79E+03	1.04E+02	1.08E-03	5.30E-12
TOTAL	8.11E+06	7.51E+06	7.21E+06	6.49E+06	5.51E+06	4.12E+06	2.28E+06	1.54E+06	1.17E+06	8.48E+05	7.13E+05

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 16/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	1.75E-17	1.98E-17	2.22E-17	2.90E-17	3.97E-17	5.92E-17	1.08E-16	1.77E-16	3.07E-16	7.67E-16	1.55E-15
TL208	2.93E-08	6.82E-10	6.30E-10	4.80E-10	2.93E-10	1.05E-10	3.49E-12	9.08E-14	2.74E-14	1.53E-15	1.27E-17
TL209	1.03E-20	1.29E-20	1.50E-20	2.20E-20	3.57E-20	7.06E-20	2.39E-19	7.58E-19	2.87E-18	2.07E-17	1.02E-16
PB209	3.42E-20	4.06E-20	4.72E-20	6.93E-20	1.12E-19	2.22E-19	7.53E-19	2.38E-18	9.02E-18	6.53E-17	3.22E-16
PB210	1.00E-21	1.32E-21	1.71E-21	3.47E-21	9.57E-21	4.54E-20	6.82E-19	6.28E-18	5.31E-17	7.52E-16	3.49E-15
PB211	1.78E-17	2.03E-17	2.27E-17	2.96E-17	4.06E-17	6.06E-17	1.11E-16	1.81E-16	3.15E-16	7.85E-16	1.59E-15
PB212	1.65E-10	1.54E-10	1.42E-10	1.08E-10	6.61E-11	2.37E-11	7.86E-13	2.05E-14	6.17E-15	3.44E-16	2.85E-18
PB214	1.38E-19	1.73E-19	2.15E-19	3.91E-19	9.14E-19	3.26E-18	2.86E-17	1.75E-16	1.08E-15	1.03E-14	4.80E-14
BI210	9.98E-21	1.31E-20	1.70E-20	3.46E-20	9.53E-20	4.51E-19	6.78E-18	6.25E-17	5.29E-16	7.48E-15	3.47E-14
BI211	2.37E-16	2.70E-16	3.02E-16	3.94E-16	5.41E-16	8.07E-16	1.47E-15	2.41E-15	4.19E-15	1.05E-14	2.11E-14
BI212	1.06E-09	1.37E-09	1.27E-09	9.67E-10	5.91E-10	2.12E-10	7.02E-12	1.83E-13	5.51E-14	3.07E-15	2.55E-17
BI213	1.25E-19	1.48E-19	1.73E-19	2.53E-19	4.11E-19	8.12E-19	2.75E-18	8.72E-18	3.30E-17	2.39E-16	1.18E-15
BI214	5.54E-19	6.95E-19	8.64E-19	1.57E-18	3.67E-18	1.31E-17	1.15E-16	7.03E-16	4.33E-15	4.16E-14	1.93E-13
PO210	1.39E-19	1.59E-19	2.06E-19	4.23E-19	1.32E-18	6.27E-18	9.43E-17	8.69E-16	7.35E-15	1.04E-13	4.82E-13
PO211	7.91E-19	9.14E-19	1.02E-18	1.34E-18	1.83E-18	2.73E-18	4.99E-18	8.17E-18	1.42E-17	3.54E-17	7.16E-17
PO212	2.15E-09	2.75E-09	2.54E-09	1.93E-09	1.18E-09	4.23E-10	1.41E-11	3.66E-13	1.10E-13	6.14E-15	5.10E-17
PO213	1.37E-18	1.75E-18	2.03E-18	2.98E-18	4.83E-18	9.56E-18	3.24E-17	1.03E-16	3.88E-16	2.81E-15	1.39E-14
PO214	2.01E-18	2.52E-18	3.13E-18	5.70E-18	1.33E-17	4.74E-17	4.16E-16	2.55E-15	1.57E-14	1.51E-13	6.98E-13
PO215	2.65E-16	3.02E-16	3.38E-16	4.41E-16	6.05E-16	9.03E-16	1.65E-15	2.70E-15	4.69E-15	1.17E-14	2.37E-14
PO216	2.46E-09	3.20E-09	2.95E-09	2.25E-09	1.37E-09	4.93E-10	1.63E-11	4.26E-13	1.28E-13	7.15E-15	5.93E-17
PO218	1.57E-18	1.97E-18	2.44E-18	4.44E-18	1.04E-17	3.70E-17	3.25E-16	1.99E-15	1.23E-14	1.18E-13	5.45E-13
AT217	1.27E-18	1.51E-18	1.75E-18	2.57E-18	4.17E-18	8.25E-18	2.79E-17	8.85E-17	3.35E-16	2.42E-15	1.20E-14
RN219	2.45E-16	2.79E-16	3.12E-16	4.07E-16	5.58E-16	8.33E-16	1.52E-15	2.49E-15	4.32E-15	1.08E-14	2.18E-14
RN220	2.36E-09	3.07E-09	2.83E-09	2.16E-09	1.32E-09	4.73E-10	1.57E-11	4.08E-13	1.23E-13	6.86E-15	5.69E-17
RN222	1.43E-18	1.80E-18	2.23E-18	4.06E-18	9.50E-18	3.39E-17	2.97E-16	1.82E-15	1.12E-14	1.07E-13	4.98E-13
FR221	1.14E-18	1.35E-18	1.57E-18	2.31E-18	3.74E-18	7.40E-18	2.51E-17	7.94E-17	3.00E-16	2.17E-15	1.07E-14
FR223	2.11E-19	2.46E-19	2.75E-19	3.59E-19	4.92E-19	7.35E-19	1.34E-18	2.20E-18	3.82E-18	9.53E-18	1.93E-17
RA223	2.11E-16	2.40E-16	2.68E-16	3.51E-16	4.80E-16	7.17E-16	1.31E-15	2.14E-15	3.72E-15	9.29E-15	1.88E-14
RA224	2.97E-09	2.77E-09	2.56E-09	1.95E-09	1.19E-09	4.27E-10	1.42E-11	3.69E-13	1.11E-13	6.20E-15	5.14E-17
RA225	2.09E-20	2.47E-20	2.88E-20	4.22E-20	6.85E-20	1.36E-19	4.59E-19	1.45E-18	5.50E-18	3.98E-17	1.96E-16
RA226	1.25E-18	1.57E-18	1.95E-18	3.54E-18	8.28E-18	2.95E-17	2.59E-16	1.58E-15	9.76E-15	9.37E-14	4.34E-13
RA228	5.42E-12	4.88E-12	4.40E-12	3.23E-12	1.93E-12	6.85E-13	3.07E-14	1.74E-16	6.01E-21	1.04E-21	2.34E-21
AC225	1.05E-18	1.24E-18	1.45E-18	2.12E-18	3.44E-18	6.80E-18	2.30E-17	7.30E-17	2.76E-16	2.00E-15	9.85E-15
AC227	2.88E-18	3.27E-18	3.66E-18	4.78E-18	6.55E-18	9.79E-18	1.79E-17	2.93E-17	5.09E-17	1.27E-16	2.57E-16
AC228	6.08E-10	5.48E-10	4.94E-10	3.62E-10	2.16E-10	7.68E-11	3.45E-12	1.96E-14	6.74E-19	1.16E-19	2.62E-19
TH227	2.07E-16	2.43E-16	2.72E-16	3.55E-16	4.87E-16	7.27E-16	1.33E-15	2.17E-15	3.77E-15	9.41E-15	1.90E-14
TH228	2.83E-09	2.63E-09	2.43E-09	1.86E-09	1.13E-09	4.07E-10	1.35E-11	3.52E-13	1.06E-13	5.91E-15	4.90E-17
TH229	9.11E-19	1.08E-18	1.26E-18	1.85E-18	2.99E-18	5.92E-18	2.01E-17	6.35E-17	2.40E-16	1.74E-15	8.58E-15
TH230	6.58E-16	7.85E-16	9.34E-16	1.51E-15	2.87E-15	7.08E-15	3.01E-14	9.63E-14	2.94E-13	1.08E-12	2.48E-12
TH231	5.92E-11	1.12E-14	1.12E-14	1.13E-14	1.13E-14	1.13E-14	1.14E-14	1.17E-14	1.21E-14	1.34E-14	1.55E-14
TH232	5.23E-21	5.78E-21	6.33E-21	7.98E-21	1.07E-20	1.63E-20	3.31E-20	6.19E-20	1.22E-19	3.25E-19	7.34E-19
TH234	2.30E-10	2.26E-13	2.19E-13	2.19E-13	2.19E-13	2.19E-13	2.19E-13	2.19E-13	2.19E-13	2.19E-13	2.19E-13
PA231	6.37E-16	9.75E-16	9.88E-16	1.03E-15	1.09E-15	1.22E-15	1.61E-15	2.28E-15	3.64E-15	7.99E-15	1.62E-14
PA233	1.47E-12	1.48E-12	1.48E-12	1.49E-12	1.52E-12	1.57E-12	1.75E-12	2.07E-12	2.65E-12	3.92E-12	5.05E-12
PA234M	2.81E-09	2.75E-12	2.67E-12	2.67E-12	2.67E-12	2.67E-12	2.67E-12	2.67E-12	2.67E-12	2.67E-12	2.67E-12
PA234	1.09E-11	1.04E-14	1.01E-14	1.01E-14	1.01E-14	1.01E-14	1.01E-14	1.01E-14	1.01E-14	1.01E-14	1.01E-14
U 232	6.94E-13	6.88E-13	6.81E-13	6.62E-13	6.30E-13	5.73E-13	4.29E-13	2.65E-13	1.01E-13	5.64E-15	4.58E-17
U 233	1.65E-15	1.74E-15	1.84E-15	2.09E-15	2.52E-15	3.38E-15	6.17E-15	1.15E-14	2.48E-14	8.08E-14	2.08E-13
U 234	1.32E-11	1.57E-11	1.81E-11	2.51E-11	3.66E-11	5.82E-11	1.14E-10	1.81E-10	2.57E-10	3.15E-10	3.20E-10

U 235	5.55E-13	5.55E-13	5.55E-13	5.56E-13	5.57E-13	5.59E-13	5.66E-13	5.76E-13	5.98E-13	6.61E-13	7.66E-13
U 236	1.25E-11	1.25E-11	1.25E-11	1.25E-11	1.25E-11	1.26E-11	1.29E-11	1.33E-11	1.41E-11	1.66E-11	2.05E-11
U 237	2.51E-12	6.71E-12	6.40E-12	5.54E-12	4.35E-12	2.69E-12	6.35E-13	5.72E-14	4.65E-16	2.50E-22	8.84E-33
U 238	1.37E-11	1.37E-11	1.37E-11	1.37E-11	1.37E-11	1.37E-11	1.37E-11	1.37E-11	1.37E-11	1.37E-11	1.37E-11
U 240	3.77E-19	7.76E-19	7.76E-19	7.76E-19	7.76E-19	7.76E-19	7.76E-19	7.76E-19	7.76E-19	7.76E-19	7.76E-19
NP237	1.91E-11	1.91E-11	1.92E-11	1.93E-11	1.96E-11	2.03E-11	2.27E-11	2.68E-11	3.43E-11	5.07E-11	6.54E-11
NP238	1.06E-13	2.13E-13	2.12E-13	2.09E-13	2.04E-13	1.95E-13	1.70E-13	1.35E-13	8.59E-14	2.19E-14	2.24E-15
NP239	6.21E-11	1.24E-10	1.24E-10	1.24E-10	1.24E-10	1.24E-10	1.24E-10	1.23E-10	1.22E-10	1.18E-10	1.13E-10
NP240M	2.66E-18	5.48E-18	5.48E-18	5.48E-18	5.48E-18	5.48E-18	5.48E-18	5.48E-18	5.48E-18	5.48E-18	5.48E-18
PU238	9.86E-07	9.79E-07	9.72E-07	9.49E-07	9.13E-07	8.43E-07	6.65E-07	4.48E-07	2.04E-07	1.91E-08	3.73E-10
PU239	2.44E-07	2.44E-07	2.44E-07	2.44E-07	2.44E-07	2.44E-07	2.43E-07	2.43E-07	2.42E-07	2.40E-07	2.37E-07
PU240	3.29E-07	3.29E-07	3.29E-07	3.28E-07	3.28E-07	3.28E-07	3.27E-07	3.26E-07	3.22E-07	3.12E-07	2.96E-07
PU241	4.58E-09	4.37E-09	4.16E-09	3.60E-09	2.83E-09	1.75E-09	4.13E-10	3.72E-11	3.03E-13	1.62E-19	5.75E-30
PU242	1.28E-10	1.28E-10	1.28E-10	1.28E-10	1.28E-10	1.28E-10	1.28E-10	1.28E-10	1.28E-10	1.28E-10	1.28E-10
PU244	2.74E-17	2.74E-17	2.74E-17	2.74E-17	2.74E-17	2.74E-17	2.74E-17	2.74E-17	2.74E-17	2.74E-17	2.74E-17
AM241	1.63E-07	1.70E-07	1.77E-07	1.97E-07	2.23E-07	2.58E-07	2.93E-07	2.83E-07	2.42E-07	1.50E-07	6.72E-08
AM242M	3.52E-12	3.51E-12	3.49E-12	3.44E-12	3.37E-12	3.22E-12	2.80E-12	2.23E-12	1.42E-12	3.61E-13	3.69E-14
AM242	5.03E-12	1.03E-11	1.02E-11	1.01E-11	9.86E-12	9.42E-12	8.21E-12	6.54E-12	4.14E-12	1.06E-12	1.08E-13
AM243	1.66E-09	1.66E-09	1.66E-09	1.66E-09	1.65E-09	1.65E-09	1.65E-09	1.64E-09	1.63E-09	1.58E-09	1.51E-09
CM242	3.09E-07	6.57E-08	1.41E-08	3.97E-10	2.59E-10	2.47E-10	2.15E-10	1.71E-10	1.09E-10	2.77E-11	2.83E-12
CM243	1.19E-09	1.16E-09	1.13E-09	1.05E-09	9.33E-10	7.32E-10	3.53E-10	1.05E-10	9.20E-12	6.25E-15	3.28E-20
CM244	2.08E-07	2.00E-07	1.93E-07	1.72E-07	1.42E-07	9.68E-08	3.07E-08	4.53E-09	9.88E-11	1.02E-15	5.01E-24
TOTAL	2.29E-06	2.01E-06	1.95E-06	1.91E-06	1.86E-06	1.78E-06	1.56E-06	1.31E-06	1.01E-06	7.23E-07	6.03E-07

NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = GUSSBH. TYP II, 16/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	5.70E+11	5.39E+11	5.10E+11	4.31E+11	3.25E+11	1.86E+11	3.45E+10	2.08E+09	7.62E+06	3.72E-01	2.42E-13
SR 90	2.10E+09	2.05E+09	2.00E+09	1.87E+09	1.66E+09	1.31E+09	6.39E+08	1.95E+08	1.80E+07	1.43E+04	9.72E-02
Y 90	2.10E+09	2.05E+09	2.00E+09	1.87E+09	1.66E+09	1.31E+09	6.39E+08	1.95E+08	1.80E+07	1.43E+04	9.72E-02
ZR 93	6.40E+04	6.40E+04	6.40E+04	6.40E+04	6.40E+04	6.40E+04	6.40E+04	6.40E+04	6.40E+04	6.40E+04	6.40E+04
NB 93M	9.30E+06	8.84E+06	8.41E+06	7.23E+06	5.61E+06	3.40E+06	7.84E+05	1.17E+05	6.12E+04	6.08E+04	6.08E+04
NB 94	9.60E+03	9.60E+03	9.60E+03	9.60E+03	9.60E+03	9.60E+03	9.59E+03	9.57E+03	9.54E+03	9.44E+03	9.28E+03
TC 99	7.00E+06	7.00E+06	7.00E+06	7.00E+06	7.00E+06	7.00E+06	7.00E+06	7.00E+06	7.00E+06	6.99E+06	6.98E+06
RU106	1.90E+07	9.56E+06	4.81E+06	6.11E+05	1.96E+04	2.03E+01	2.24E-08	2.64E-23	0.0	0.0	0.0
RH106	1.90E+07	9.56E+06	4.81E+06	6.11E+05	1.96E+04	2.03E+01	2.24E-08	2.64E-23	0.0	0.0	0.0
PD107	4.00E+01	4.00E+01	4.00E+01	4.00E+01	4.00E+01	4.00E+01	4.00E+01	4.00E+01	4.00E+01	4.00E+01	4.00E+01
AG108	3.80E+02	4.69E+02	4.67E+02	4.59E+02	4.47E+02	4.23E+02	3.59E+02	2.73E+02	1.58E+02	3.08E+01	2.01E+00
AG108M	5.30E+03	5.27E+03	5.24E+03	5.16E+03	5.02E+03	4.75E+03	4.04E+03	3.07E+03	1.78E+03	3.46E+02	2.26E+01
AG110	2.00E+03	2.90E+06	1.05E+06	5.04E+04	3.19E+02	1.27E-02	8.07E-16	0.0	0.0	0.0	0.0
AG110M	6.00E+08	2.18E+08	7.92E+07	3.79E+06	2.39E+04	9.56E-01	6.07E-14	0.0	0.0	0.0	0.0
SN126	2.10E+04	2.10E+04	2.10E+04	2.10E+04	2.10E+04	2.10E+04	2.10E+04	2.10E+04	2.10E+04	2.09E+04	2.09E+04
SB125	6.60E+08	5.14E+08	4.00E+08	1.88E+08	5.36E+07	4.36E+06	2.33E+03	8.26E-03	1.03E-13	0.0	0.0
SB126	1.60E+03	2.94E+03	2.94E+03	2.94E+03	2.94E+03	2.94E+03	2.94E+03	2.94E+03	2.94E+03	2.93E+03	2.92E+03
SB126M	1.10E+04	2.10E+04	2.10E+04	2.10E+04	2.10E+04	2.10E+04	2.10E+04	2.10E+04	2.10E+04	2.09E+04	2.09E+04
TE125M	6.10E+08	1.31E+08	9.76E+07	4.59E+07	1.31E+07	1.06E+06	5.70E+02	2.01E-03	2.52E-14	0.0	0.0
I 129	4.30E+04	4.30E+04	4.30E+04	4.30E+04	4.30E+04	4.30E+04	4.30E+04	4.30E+04	4.30E+04	4.30E+04	4.30E+04
CS134	5.20E+09	3.72E+09	2.66E+09	9.69E+08	1.81E+08	6.27E+06	2.62E+02	1.32E-05	3.35E-20	0.0	0.0
CS135	1.70E+05	1.70E+05	1.70E+05	1.70E+05	1.70E+05	1.70E+05	1.70E+05	1.70E+05	1.70E+05	1.70E+05	1.70E+05
CS137	3.60E+10	3.52E+10	3.44E+10	3.21E+10	2.86E+10	2.27E+10	1.13E+10	3.57E+09	3.55E+08	3.47E+05	3.34E+00
BA137M	3.40E+10	3.33E+10	3.25E+10	3.04E+10	2.70E+10	2.15E+10	1.07E+10	3.38E+09	3.36E+08	3.28E+05	3.16E+00
CE144	4.10E+08	1.68E+08	6.91E+07	4.78E+06	5.57E+04	7.57E+00	1.89E-11	8.75E-31	0.0	0.0	0.0
PR144	4.10E+08	1.68E+08	6.91E+07	4.78E+06	5.57E+04	7.57E+00	1.90E-11	8.75E-31	0.0	0.0	0.0
PR144M	4.90E+06	2.02E+06	8.29E+05	5.74E+04	6.68E+02	9.08E-02	2.27E-13	1.05E-32	0.0	0.0	0.0
ND144	1.80E-07	2.70E-07	3.07E-07	3.30E-07	3.32E-07	3.32E-07	3.32E-07	3.32E-07	3.32E-07	3.32E-07	3.32E-07
PM147	1.30E+08	9.99E+07	7.67E+07	3.47E+07	9.27E+06	6.60E+05	2.39E+02	4.39E-04	1.48E-15	0.0	0.0
SM147	2.90E-03	3.64E-03	4.21E-03	5.24E-03	5.86E-03	6.07E-03	6.09E-03	6.09E-03	6.09E-03	6.09E-03	6.09E-03
SM148	7.60E-21	9.57E-21	1.20E-20	2.18E-20	4.53E-20	1.13E-19	3.95E-19	9.39E-19	2.05E-18	5.40E-18	1.10E-17
EU152	3.10E+09	2.95E+09	2.80E+09	2.40E+09	1.86E+09	1.12E+09	2.43E+08	1.90E+07	1.16E+05	2.67E-02	2.31E-13
EU154	3.20E+08	2.95E+08	2.72E+08	2.14E+08	1.43E+08	6.39E+07	5.70E+06	1.01E+05	3.21E+01	1.02E-09	3.24E-27
EU155	1.10E+07	9.57E+06	8.32E+06	5.47E+06	2.72E+06	6.73E+05	1.02E+04	9.39E+00	8.02E-06	4.99E-24	0.0
GD152	2.00E-05	2.54E-05	3.06E-05	4.45E-05	6.34E-05	8.95E-05	1.20E-04	1.28E-04	1.29E-04	1.29E-04	1.29E-04
TOTAL	6.56E+11	6.20E+11	5.87E+11	5.01E+11	3.87E+11	2.34E+11	5.81E+10	9.46E+09	7.42E+08	8.09E+06	7.37E+06

FISSION PRODUCTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 16/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	5.21E-04	4.92E-04	4.65E-04	3.93E-04	2.97E-04	1.70E-04	3.15E-05	1.90E-06	6.96E-09	3.40E-16	2.21E-28
SR 90	6.59E-05	6.44E-05	6.28E-05	5.85E-05	5.19E-05	4.09E-05	2.01E-05	6.10E-06	5.65E-07	4.48E-10	3.05E-15
Y 90	3.15E-04	3.07E-04	3.00E-04	2.79E-04	2.48E-04	1.96E-04	9.58E-05	2.91E-05	2.70E-06	2.14E-09	1.46E-14
ZR 93	2.01E-10	2.01E-10	2.01E-10	2.01E-10	2.01E-10	2.01E-10	2.01E-10	2.01E-10	2.01E-10	2.01E-10	2.01E-10
NB 93M	4.46E-08	4.24E-08	4.03E-08	3.46E-08	2.69E-08	1.63E-08	3.76E-09	5.63E-10	2.93E-10	2.91E-10	2.91E-10
NB 94	2.64E-09	2.64E-09	2.64E-09	2.64E-09	2.64E-09	2.64E-09	2.64E-09	2.64E-09	2.63E-09	2.60E-09	2.56E-09
TC 99	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.48E-08	9.46E-08
RUI06	3.05E-08	1.53E-08	7.70E-09	9.79E-10	3.15E-11	3.25E-14	3.59E-23	4.23E-38	0.0	0.0	0.0
RH106	4.93E-06	2.48E-06	1.25E-06	1.58E-07	5.09E-09	5.26E-12	5.81E-21	6.85E-36	0.0	0.0	0.0
PD107	6.41E-14	6.41E-14	6.41E-14	6.41E-14	6.41E-14	6.41E-14	6.41E-14	6.41E-14	6.41E-14	6.41E-14	6.41E-14
AG108	3.83E-11	4.73E-11	4.70E-11	4.62E-11	4.50E-11	4.26E-11	3.62E-11	2.75E-11	1.60E-11	3.11E-12	2.03E-13
AG108M	1.39E-09	1.39E-09	1.38E-09	1.36E-09	1.32E-09	1.25E-09	1.06E-09	8.08E-10	4.68E-10	9.11E-11	5.95E-12
AG110	3.89E-10	5.63E-07	2.04E-07	9.79E-09	6.18E-11	2.47E-15	1.57E-28	0.0	0.0	0.0	0.0
AG110M	2.71E-04	9.84E-05	3.57E-05	1.71E-06	1.08E-08	4.31E-13	2.74E-26	0.0	0.0	0.0	0.0
SN126	7.08E-10	7.08E-10	7.08E-10	7.08E-10	7.08E-10	7.08E-10	7.08E-10	7.08E-10	7.07E-10	7.06E-10	7.03E-10
SB125	5.58E-05	4.34E-05	3.38E-05	1.59E-05	4.53E-06	3.68E-07	1.97E-10	6.98E-16	8.72E-27	0.0	0.0
SB126	7.99E-10	1.47E-09	1.47E-09	1.47E-09	1.47E-09	1.47E-09	1.47E-09	1.47E-09	1.47E-09	1.46E-09	1.46E-09
SB126M	3.79E-09	7.23E-09	7.23E-09	7.23E-09	7.23E-09	7.23E-09	7.23E-09	7.22E-09	7.22E-09	7.20E-09	7.18E-09
TE125M	1.39E-05	2.98E-06	2.22E-06	1.04E-06	2.97E-07	2.42E-08	1.29E-11	4.58E-17	5.72E-28	0.0	0.0
I 129	5.38E-10	5.38E-10	5.38E-10	5.38E-10	5.38E-10	5.38E-10	5.38E-10	5.38E-10	5.38E-10	5.38E-10	5.38E-10
CS134	1.43E-03	1.02E-03	7.31E-04	2.67E-04	4.97E-05	1.72E-06	7.21E-11	3.63E-18	9.20E-33	0.0	0.0
CS135	1.53E-09	1.53E-09	1.53E-09	1.53E-09	1.53E-09	1.53E-09	1.53E-09	1.53E-09	1.53E-09	1.53E-09	1.53E-09
CS137	1.08E-03	1.05E-03	1.03E-03	9.59E-04	8.55E-04	6.78E-04	3.39E-04	1.07E-04	1.06E-05	1.04E-08	1.00E-13
BA137M	3.61E-03	3.53E-03	3.45E-03	3.22E-03	2.87E-03	2.28E-03	1.14E-03	3.59E-04	3.56E-05	3.48E-08	3.36E-13
CE144	7.35E-06	3.02E-06	1.24E-06	8.57E-08	9.99E-10	1.36E-13	3.40E-25	1.57E-44	0.0	0.0	0.0
PR144	8.15E-05	3.34E-05	1.37E-05	9.50E-07	1.11E-08	1.50E-12	3.76E-24	1.74E-43	0.0	0.0	0.0
PR144M	4.53E-08	1.87E-08	7.67E-09	5.30E-10	6.18E-12	8.39E-16	2.10E-27	9.71E-47	0.0	0.0	0.0
PM147	1.26E-06	9.68E-07	7.43E-07	3.36E-07	8.98E-08	6.40E-09	2.32E-12	4.25E-18	1.44E-29	0.0	0.0
SM147	1.07E-15	1.35E-15	1.56E-15	1.94E-15	2.17E-15	2.25E-15	2.25E-15	2.25E-15	2.25E-15	2.25E-15	2.25E-15
SM148	2.45E-33	3.09E-33	3.87E-33	7.03E-33	1.46E-32	3.63E-32	1.27E-31	3.03E-31	6.63E-31	1.74E-30	3.54E-30
EU152	6.35E-04	6.04E-04	5.74E-04	4.93E-04	3.82E-04	2.29E-04	4.97E-05	3.89E-06	2.38E-08	5.48E-15	4.73E-26
EU154	7.74E-05	7.14E-05	6.59E-05	5.17E-05	3.46E-05	1.54E-05	1.38E-06	2.45E-08	7.76E-12	2.46E-22	7.84E-40
EU155	2.16E-07	1.88E-07	1.64E-07	1.08E-07	5.35E-08	1.32E-08	2.00E-10	1.85E-13	1.58E-19	9.81E-38	0.0
GD152	7.05E-18	8.95E-18	1.08E-17	1.57E-17	2.23E-17	3.15E-17	4.24E-17	4.51E-17	4.54E-17	4.54E-17	4.54E-17
TOTAL	8.17E-03	7.33E-03	6.77E-03	5.74E-03	4.79E-03	3.61E-03	1.68E-03	5.07E-04	4.96E-05	1.57E-07	1.09E-07

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	8.85E+11	8.03E+11	7.35E+11	5.82E+11	4.23E+11	2.49E+11	6.70E+10	1.63E+10	5.22E+09	2.58E+09	2.24E+09
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	3.72E-02	3.20E-02	2.78E-02	1.91E-02	1.14E-02	5.38E-03	1.81E-03	5.90E-04	1.08E-04	3.76E-05	3.40E-05

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP II, 16/2

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	2.40E+08	2.40E+08	2.40E+08	2.40E+08	2.40E+08	2.40E+08	2.39E+08	2.37E+08	2.34E+08	2.26E+08	2.13E+08
NA 22	1.00E+05	7.67E+04	5.87E+04	2.64E+04	6.97E+03	4.86E+02	1.65E-01	2.71E-07	7.35E-19	0.0	0.0
CL 36	4.80E+06	4.80E+06	4.80E+06	4.80E+06	4.80E+06	4.80E+06	4.80E+06	4.80E+06	4.80E+06	4.80E+06	4.79E+06
FE 55	6.30E+11	4.83E+11	3.70E+11	1.66E+11	4.38E+10	3.05E+09	1.03E+06	1.67E+00	4.45E-12	0.0	0.0
CO 60	1.20E+11	1.05E+11	9.23E+10	6.22E+10	3.22E+10	8.65E+09	1.67E+08	2.34E+05	4.54E-01	3.34E-18	0.0
NI 59	2.40E+08	2.40E+08	2.40E+08	2.40E+08	2.40E+08	2.40E+08	2.40E+08	2.40E+08	2.40E+08	2.39E+08	2.38E+08
NI 63	3.20E+10	3.18E+10	3.15E+10	3.08E+10	2.97E+10	2.75E+10	2.20E+10	1.51E+10	7.10E+09	7.41E+08	1.71E+07
TOTAL	7.83E+11	6.20E+11	4.94E+11	2.60E+11	1.06E+11	3.97E+10	2.26E+10	1.56E+10	7.58E+09	1.21E+09	4.73E+08

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 16/2

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	1.90E-06	1.90E-06	1.90E-06	1.90E-06	1.90E-06	1.90E-06	1.89E-06	1.88E-06	1.86E-06	1.79E-06	1.69E-06
NA 22	3.83E-08	2.93E-08	2.25E-08	1.01E-08	2.67E-09	1.86E-10	6.30E-14	1.04E-19	2.81E-31	0.0	0.0
CL 36	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.90E-07	1.89E-07
FE 55	2.34E-02	1.79E-02	1.37E-02	6.18E-03	1.63E-03	1.13E-04	3.82E-08	6.23E-14	1.65E-25	0.0	0.0
CO 60	5.00E-02	4.39E-02	3.85E-02	2.59E-02	1.34E-02	3.61E-03	6.98E-05	9.73E-08	1.89E-13	1.39E-30	0.0
NI 59	4.13E-05	4.13E-05	4.13E-05	4.13E-05	4.13E-05	4.13E-05	4.13E-05	4.13E-05	4.12E-05	4.11E-05	4.10E-05
NI 63	3.44E-04	3.41E-04	3.38E-04	3.31E-04	3.19E-04	2.96E-04	2.36E-04	1.62E-04	7.62E-05	7.95E-06	1.84E-07
TOTAL	7.38E-02	6.22E-02	5.26E-02	3.25E-02	1.54E-02	4.06E-03	3.49E-04	2.05E-04	1.19E-04	5.11E-05	4.30E-05

ACTINIDES

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = GUSSBH. TYP II, 16/2

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	1.20E-04	1.44E-04	1.70E-04	2.58E-04	4.40E-04	9.09E-04	2.85E-03	6.86E-03	1.54E-02	4.41E-02	8.76E-02
TL208	4.70E-01	9.07E-01	9.34E-01	9.58E-01	9.35E-01	8.52E-01	6.38E-01	3.95E-01	1.51E-01	8.40E-03	6.97E-05
TL209	1.20E-07	1.47E-07	1.71E-07	2.51E-07	4.05E-07	7.89E-07	2.58E-06	7.93E-06	2.91E-05	2.05E-04	9.92E-04
PB209	5.60E-06	6.67E-06	7.78E-06	1.14E-05	1.84E-05	3.59E-05	1.17E-04	3.61E-04	1.32E-03	9.30E-03	4.51E-02
PB210	6.10E-07	7.55E-07	9.26E-07	1.63E-06	3.66E-06	1.30E-05	1.34E-04	1.02E-03	7.78E-03	1.03E-01	4.71E-01
PB211	1.20E-04	1.44E-04	1.70E-04	2.59E-04	4.42E-04	9.12E-04	2.86E-03	6.88E-03	1.55E-02	4.43E-02	8.78E-02
PB212	1.30E+00	2.53E+00	2.60E+00	2.67E+00	2.60E+00	2.37E+00	1.78E+00	1.10E+00	4.20E-01	2.34E-02	1.94E-04
PB214	4.60E-06	5.83E-06	6.88E-06	1.09E-05	2.11E-05	5.85E-05	3.79E-04	2.00E-03	1.13E-02	1.03E-01	4.71E-01
BI210	6.10E-07	7.56E-07	9.27E-07	1.63E-06	3.66E-06	1.30E-05	1.34E-04	1.02E-03	7.78E-03	1.03E-01	4.71E-01
BI211	1.20E-04	1.44E-04	1.70E-04	2.59E-04	4.42E-04	9.12E-04	2.86E-03	6.88E-03	1.55E-02	4.43E-02	8.78E-02
BI212	1.30E+00	2.53E+00	2.60E+00	2.67E+00	2.60E+00	2.37E+00	1.78E+00	1.10E+00	4.20E-01	2.34E-02	1.94E-04
BI213	5.60E-06	6.67E-06	7.78E-06	1.14E-05	1.84E-05	3.59E-05	1.17E-04	3.61E-04	1.32E-03	9.30E-03	4.51E-02
BI214	4.60E-06	5.83E-06	6.88E-06	1.09E-05	2.11E-05	5.85E-05	3.79E-04	2.00E-03	1.13E-02	1.03E-01	4.71E-01
PO210	6.10E-07	6.81E-07	8.23E-07	1.47E-06	3.66E-06	1.30E-05	1.34E-04	1.02E-03	7.78E-03	1.03E-01	4.71E-01
PO211	3.70E-07	4.33E-07	5.11E-07	7.78E-07	1.33E-06	2.74E-06	8.59E-06	2.06E-05	4.64E-05	1.33E-04	2.63E-04
PO212	8.40E-01	1.62E+00	1.67E+00	1.71E+00	1.67E+00	1.52E+00	1.14E+00	7.04E-01	2.69E-01	1.50E-02	1.24E-04
PO213	5.40E-06	6.52E-06	7.61E-06	1.12E-05	1.80E-05	3.51E-05	1.15E-04	3.53E-04	1.30E-03	9.09E-03	4.41E-02
PO214	4.60E-06	5.83E-06	6.88E-06	1.09E-05	2.11E-05	5.85E-05	3.79E-04	2.00E-03	1.13E-02	1.03E-01	4.71E-01
PO215	1.20E-04	1.44E-04	1.70E-04	2.59E-04	4.42E-04	9.12E-04	2.86E-03	6.88E-03	1.55E-02	4.43E-02	8.78E-02
PO216	1.30E+00	2.53E+00	2.60E+00	2.67E+00	2.60E+00	2.37E+00	1.78E+00	1.10E+00	4.20E-01	2.34E-02	1.94E-04
PO218	4.60E-06	5.83E-06	6.88E-06	1.09E-05	2.11E-05	5.85E-05	3.79E-04	2.00E-03	1.13E-02	1.03E-01	4.71E-01
AT217	5.60E-06	6.67E-06	7.78E-06	1.14E-05	1.84E-05	3.59E-05	1.17E-04	3.61E-04	1.32E-03	9.30E-03	4.51E-02
RN219	1.20E-04	1.44E-04	1.70E-04	2.59E-04	4.42E-04	9.12E-04	2.86E-03	6.88E-03	1.55E-02	4.43E-02	8.78E-02
RN220	1.30E+00	2.53E+00	2.60E+00	2.67E+00	2.60E+00	2.37E+00	1.78E+00	1.10E+00	4.20E-01	2.34E-02	1.94E-04
RN222	4.90E-06	5.83E-06	6.88E-06	1.09E-05	2.11E-05	5.85E-05	3.79E-04	2.00E-03	1.13E-02	1.03E-01	4.71E-01
FR221	5.60E-06	6.67E-06	7.78E-06	1.14E-05	1.84E-05	3.59E-05	1.17E-04	3.61E-04	1.32E-03	9.30E-03	4.51E-02
FR223	1.70E-06	2.02E-06	2.38E-06	3.62E-06	6.18E-06	1.28E-05	4.01E-05	9.63E-05	2.17E-04	6.20E-04	1.23E-03
RA223	1.20E-04	1.44E-04	1.70E-04	2.59E-04	4.42E-04	9.12E-04	2.86E-03	6.88E-03	1.55E-02	4.43E-02	8.78E-02
RA224	1.30E+00	2.53E+00	2.60E+00	2.67E+00	2.60E+00	2.37E+00	1.78E+00	1.10E+00	4.20E-01	2.34E-02	1.94E-04
RA225	5.60E-06	6.67E-06	7.78E-06	1.14E-05	1.84E-05	3.59E-05	1.17E-04	3.61E-04	1.32E-03	9.30E-03	4.51E-02
RA226	4.90E-06	5.83E-06	6.88E-06	1.09E-05	2.11E-05	5.85E-05	3.79E-04	2.00E-03	1.13E-02	1.03E-01	4.71E-01
RA228	2.20E-08	2.46E-08	2.73E-08	3.64E-08	5.31E-08	8.96E-08	2.07E-07	4.05E-07	8.42E-07	2.05E-06	4.12E-06
AC225	5.60E-06	6.67E-06	7.78E-06	1.14E-05	1.84E-05	3.59E-05	1.17E-04	3.61E-04	1.32E-03	9.30E-03	4.51E-02
AC227	1.20E-04	1.44E-04	1.70E-04	2.59E-04	4.41E-04	9.11E-04	2.86E-03	6.88E-03	1.55E-02	4.43E-02	8.78E-02
AC228	1.80E-08	2.46E-08	2.73E-08	3.64E-08	5.31E-08	8.96E-08	2.07E-07	4.05E-07	8.42E-07	2.05E-06	4.12E-06
TH227	1.20E-04	1.42E-04	1.68E-04	2.56E-04	4.36E-04	8.99E-04	2.82E-03	6.78E-03	1.53E-02	4.37E-02	8.66E-02
TH228	2.40E+00	2.52E+00	2.59E+00	2.66E+00	2.60E+00	2.37E+00	1.78E+00	1.10E+00	4.20E-01	2.34E-02	1.94E-04
TH229	5.60E-06	6.67E-06	7.78E-06	1.14E-05	1.84E-05	3.59E-05	1.17E-04	3.61E-04	1.32E-03	9.30E-03	4.51E-02
TH230	2.00E-03	2.29E-03	2.60E-03	3.67E-03	5.87E-03	1.18E-02	4.04E-02	1.17E-01	3.38E-01	1.20E+00	2.73E+00
TH231	4.10E+00	4.10E+00	4.10E+00	4.10E+00	4.10E+00	4.10E+00	4.11E+00	4.11E+00	4.12E+00	4.16E+00	4.21E+00
TH232	4.70E-08	5.10E-08	5.49E-08	6.68E-08	8.65E-08	1.26E-07	2.45E-07	4.43E-07	8.42E-07	2.05E-06	4.12E-06
TH234	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01
PA231	8.40E-04	9.27E-04	1.01E-03	1.28E-03	1.71E-03	2.58E-03	5.18E-03	9.52E-03	1.82E-02	4.43E-02	8.78E-02
PA233	1.10E+02	1.10E+02	1.10E+02	1.11E+02	1.12E+02	1.16E+02	1.28E+02	1.49E+02	1.89E+02	2.75E+02	3.52E+02
PA234M	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01
PA234	1.20E-01	1.17E-01	1.17E-01	1.17E-01	1.17E-01	1.17E-01	1.17E-01	1.17E-01	1.17E-01	1.17E-01	1.17E-01
U 232	2.80E+00	2.77E+00	2.75E+00	2.67E+00	2.54E+00	2.31E+00	1.73E+00	1.07E+00	4.09E-01	2.28E-02	1.85E-04
U 233	1.10E-02	1.15E-02	1.21E-02	1.36E-02	1.60E-02	2.10E-02	3.69E-02	6.73E-02	1.41E-01	4.49E-01	1.14E+00
U 234	3.10E+01	3.35E+01	3.59E+01	4.31E+01	5.48E+01	7.67E+01	1.33E+02	2.02E+02	2.80E+02	3.38E+02	3.44E+02

U 235	4.10E+00	4.10E+00	4.10E+00	4.10E+00	4.10E+00	4.10E+00	4.10E+00	4.11E+00	4.11E+00	4.12E+00	4.16E+00	4.21E+00
U 236	8.00E+01	8.00E+01	8.00E+01	8.01E+01	8.01E+01	8.01E+01	8.01E+01	8.03E+01	8.06E+01	8.11E+01	8.27E+01	8.51E+01
U 237	2.60E+02	6.92E+02	6.60E+02	5.71E+02	4.49E+02	2.77E+02	6.55E+01	5.90E+00	4.80E-02	2.57E-08	9.12E-19	9.00E+01
U 238	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01	9.00E+01
U 240	1.00E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04
NP237	1.10E+02	1.10E+02	1.10E+02	1.11E+02	1.12E+02	1.16E+02	1.28E+02	1.49E+02	1.89E+02	2.75E+02	3.52E+02	3.52E+02
NP238	3.30E+00	6.97E+00	6.94E+00	6.85E+00	6.69E+00	6.39E+00	5.58E+00	4.44E+00	2.81E+00	7.17E-01	7.34E-02	7.34E-02
NP239	3.90E+03	8.00E+03	8.00E+03	8.00E+03	8.00E+03	8.00E+03	7.99E+03	7.97E+03	7.93E+03	7.85E+03	7.64E+03	7.29E+03
NP240M	1.00E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04
PU238	8.70E+05	8.65E+05	8.58E+05	8.38E+05	8.06E+05	7.45E+05	5.88E+05	3.96E+05	1.80E+05	1.70E+04	3.52E+02	3.52E+02
PU239	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.09E+05	1.09E+05	1.07E+05	1.07E+05
PU240	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.81E+05	1.81E+05	1.81E+05	1.80E+05	1.78E+05	1.73E+05	1.64E+05	1.64E+05
PU241	2.90E+07	2.76E+07	2.63E+07	2.28E+07	1.79E+07	1.11E+07	2.62E+06	2.36E+05	1.92E+03	1.03E-03	3.64E-14	3.64E-14
PU242	8.00E+02	8.00E+02	8.00E+02	8.00E+02	8.00E+02	8.00E+02	8.00E+02	8.00E+02	8.00E+02	8.00E+02	8.00E+02	7.99E+02
PU244	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04	2.20E-04
AM241	5.40E+05	5.85E+05	6.27E+05	7.42E+05	8.98E+05	1.11E+06	1.33E+06	1.30E+06	1.12E+06	6.91E+05	3.10E+05	3.10E+05
AM242M	1.40E+03	1.39E+03	1.39E+03	1.37E+03	1.34E+03	1.28E+03	1.12E+03	8.88E+02	5.63E+02	1.43E+02	1.47E+01	1.47E+01
AM242	6.60E+02	1.39E+03	1.38E+03	1.36E+03	1.33E+03	1.27E+03	1.11E+03	8.83E+02	5.60E+02	1.43E+02	1.46E+01	1.46E+01
AM243	8.00E+03	8.00E+03	8.00E+03	8.00E+03	8.00E+03	7.99E+03	7.97E+03	7.93E+03	7.85E+03	7.64E+03	7.29E+03	7.29E+03
CM242	2.90E+05	6.24E+04	1.41E+04	1.25E+03	1.10E+03	1.05E+03	9.18E+02	7.31E+02	4.63E+02	1.18E+02	1.21E+01	1.21E+01
CM243	5.50E+03	5.37E+03	5.24E+03	4.87E+03	4.31E+03	3.38E+03	1.63E+03	4.84E+02	4.25E+01	2.89E-02	1.52E-07	1.52E-07
CM244	7.60E+05	7.32E+05	7.04E+05	6.28E+05	5.19E+05	3.54E+05	1.12E+05	1.66E+04	3.61E+02	3.73E-03	1.83E-11	1.83E-11
TOTAL	3.18E+07	3.02E+07	2.89E+07	2.53E+07	2.05E+07	1.36E+07	4.96E+06	2.26E+06	1.61E+06	1.01E+06	5.98E+05	5.98E+05

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 16/2

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	9.53E-18	1.14E-17	1.35E-17	2.05E-17	3.50E-17	7.22E-17	2.27E-16	5.44E-16	1.22E-15	3.50E-15	6.95E-15
TL208	2.99E-13	5.77E-13	5.94E-13	6.09E-13	5.94E-13	5.42E-13	4.06E-13	2.51E-13	9.58E-14	5.34E-15	4.43E-17
TL209	5.39E-20	6.59E-20	7.69E-20	1.13E-19	1.82E-19	3.54E-19	1.16E-18	3.56E-18	1.31E-17	9.19E-17	4.46E-16
PB209	1.74E-19	2.07E-19	2.42E-19	3.55E-19	5.72E-19	1.12E-18	3.65E-18	1.12E-17	4.12E-17	2.89E-16	1.40E-15
PB210	3.82E-21	4.73E-21	5.80E-21	1.02E-20	2.29E-20	8.15E-20	8.40E-19	6.41E-18	4.87E-17	6.47E-16	2.95E-15
PB211	9.72E-18	1.17E-17	1.38E-17	2.10E-17	3.58E-17	7.39E-17	2.32E-16	5.57E-16	1.25E-15	3.59E-15	7.11E-15
PB212	6.69E-14	1.30E-13	1.34E-13	1.37E-13	1.34E-13	1.22E-13	9.15E-14	5.66E-14	2.16E-14	1.20E-15	9.99E-18
PB214	3.97E-19	5.02E-19	5.93E-19	9.42E-19	1.82E-18	5.05E-18	3.27E-17	1.73E-16	9.78E-16	8.90E-15	4.06E-14
BI210	3.80E-20	4.71E-20	5.77E-20	1.01E-19	2.28E-19	8.11E-19	8.36E-18	6.38E-17	4.85E-16	6.43E-15	2.93E-14
BI211	1.29E-16	1.56E-16	1.84E-16	2.79E-16	4.76E-16	9.83E-16	3.09E-15	7.41E-15	1.67E-14	4.77E-14	9.47E-14
BI212	5.98E-13	1.16E-12	1.20E-12	1.23E-12	1.20E-12	1.09E-12	8.17E-13	5.05E-13	1.93E-13	1.07E-14	8.92E-17
BI213	6.37E-19	7.58E-19	8.85E-19	1.30E-18	2.09E-18	4.08E-18	1.33E-17	4.10E-17	1.51E-16	1.06E-15	5.12E-15
BI214	1.59E-18	2.02E-18	2.38E-18	3.79E-18	7.32E-18	2.03E-17	1.31E-16	6.94E-16	3.93E-15	3.58E-14	1.63E-13
PO210	5.29E-19	5.90E-19	7.13E-19	1.28E-18	3.17E-18	1.13E-17	1.16E-16	8.86E-16	6.74E-15	8.95E-14	4.08E-13
PO211	4.50E-19	5.27E-19	6.21E-19	9.46E-19	1.61E-18	3.33E-18	1.04E-17	2.51E-17	5.65E-17	1.62E-16	3.21E-16
PO212	1.21E-12	2.32E-12	2.39E-12	2.45E-12	2.39E-12	2.18E-12	1.64E-12	1.01E-12	3.86E-13	2.15E-14	1.79E-16
PO213	7.39E-18	8.92E-18	1.04E-17	1.53E-17	2.46E-17	4.80E-17	1.57E-16	4.82E-16	1.77E-15	1.24E-14	6.03E-14
PO214	5.78E-18	7.32E-18	8.64E-18	1.37E-17	2.65E-17	4.76E-17	1.65E-16	7.51E-15	1.42E-14	1.30E-13	5.91E-13
PO215	1.45E-16	1.74E-16	2.05E-16	3.13E-16	5.33E-16	1.10E-15	3.45E-15	8.29E-15	1.87E-14	5.34E-14	1.06E-13
PO216	1.39E-12	2.70E-12	2.78E-12	2.86E-12	2.78E-12	2.54E-12	1.90E-12	1.18E-12	4.49E-13	2.50E-14	2.08E-16
PO218	4.51E-18	5.71E-18	6.74E-18	1.07E-17	2.07E-17	5.73E-17	3.71E-16	1.96E-15	1.11E-14	1.01E-13	4.61E-13
AT217	4.46E-18	7.69E-18	8.98E-18	1.32E-17	2.12E-17	4.14E-17	1.35E-16	4.16E-16	1.53E-15	1.07E-14	5.20E-14
RN219	1.34E-16	1.61E-16	1.89E-16	2.89E-16	4.92E-16	1.02E-15	3.19E-15	7.65E-15	1.72E-14	4.93E-14	9.77E-14
RN220	1.33E-12	2.59E-12	2.67E-12	2.74E-12	2.67E-12	2.44E-12	1.82E-12	1.13E-12	4.31E-13	2.40E-14	1.99E-16
RN222	4.39E-18	5.22E-18	6.17E-18	9.79E-18	1.89E-17	5.24E-17	3.39E-16	1.79E-15	1.02E-14	9.25E-14	4.22E-13
FR221	5.80E-18	6.90E-18	8.05E-18	1.18E-17	1.90E-17	3.71E-17	1.22E-16	3.73E-16	1.37E-15	9.62E-15	4.67E-14
FR223	1.19E-19	1.41E-19	1.67E-19	2.54E-19	4.34E-19	8.96E-19	2.81E-18	6.76E-18	1.52E-17	4.35E-17	8.63E-17
RA223	1.15E-16	1.38E-16	1.63E-16	2.48E-16	4.23E-16	8.74E-16	2.74E-15	6.59E-15	1.48E-14	4.24E-14	8.41E-14
RA224	1.21E-12	2.34E-12	2.41E-12	2.48E-12	2.41E-12	2.20E-12	1.65E-12	1.02E-12	3.89E-13	2.17E-14	1.80E-16
RA225	1.06E-19	1.26E-19	1.48E-19	2.16E-19	3.49E-19	6.80E-19	2.23E-18	6.83E-18	2.51E-17	1.76E-16	8.55E-16
RA226	3.83E-18	4.55E-18	5.37E-18	8.53E-18	1.65E-17	4.57E-17	2.96E-16	1.56E-15	8.85E-15	8.06E-14	3.67E-13
RA228	4.58E-23	5.12E-23	5.69E-23	7.58E-23	1.11E-22	1.87E-22	4.30E-22	8.43E-22	1.75E-21	4.28E-21	8.59E-21
AC225	5.33E-18	6.34E-18	7.40E-18	1.09E-17	1.75E-17	3.41E-17	1.12E-16	3.43E-16	1.26E-15	8.84E-15	4.29E-14
AC227	1.57E-18	1.88E-18	2.22E-18	3.39E-18	5.77E-18	1.19E-17	3.75E-17	9.00E-17	2.03E-16	5.80E-16	1.15E-15
AC228	4.21E-21	5.75E-21	6.38E-21	8.50E-21	1.24E-20	2.09E-20	4.83E-20	9.45E-20	1.97E-19	4.80E-19	9.63E-19
TH227	1.18E-16	1.40E-16	1.65E-16	2.52E-16	4.29E-16	8.86E-16	2.78E-15	6.68E-15	1.50E-14	4.30E-14	8.53E-14
TH228	2.12E-12	2.23E-12	2.29E-12	2.36E-12	2.30E-12	2.10E-12	1.57E-12	9.72E-13	3.71E-13	2.07E-14	1.72E-16
TH229	4.64E-18	5.52E-18	6.45E-18	9.46E-18	1.52E-17	2.97E-17	9.73E-17	2.99E-16	1.10E-15	7.70E-15	3.73E-14
TH230	1.53E-15	1.75E-15	1.99E-15	2.81E-15	4.49E-15	9.02E-15	3.09E-14	8.93E-14	2.58E-13	9.16E-13	2.09E-12
TH231	6.22E-14	6.22E-14	6.22E-14	6.22E-14	6.22E-14	6.23E-14	6.23E-14	6.24E-14	6.26E-14	6.30E-14	6.39E-14
TH232	3.07E-20	3.33E-20	3.59E-20	4.36E-20	5.66E-20	8.24E-20	1.60E-19	2.90E-19	5.50E-19	1.34E-18	2.70E-18
TH234	9.87E-13	9.87E-13	9.87E-13	9.87E-13	9.87E-13	9.87E-13	9.87E-13	9.87E-13	9.87E-13	9.87E-13	9.87E-13
PA231	6.93E-16	7.65E-16	8.37E-16	1.05E-15	1.41E-15	2.13E-15	4.27E-15	7.85E-15	1.50E-14	3.65E-14	7.24E-14
PA233	6.75E-12	6.76E-12	6.77E-12	6.81E-12	6.90E-12	7.10E-12	7.85E-12	9.17E-12	1.16E-11	1.69E-11	2.16E-11
PA234M	1.20E-11	1.20E-11	1.20E-11	1.20E-11	1.20E-11	1.20E-11	1.20E-11	1.20E-11	1.20E-11	1.20E-11	1.20E-11
PA234	4.66E-14	4.54E-14	4.54E-14	4.54E-14	4.54E-14	4.54E-14	4.54E-14	4.54E-14	4.54E-14	4.54E-14	4.54E-14
U 232	2.43E-12	2.41E-12	2.38E-12	2.32E-12	2.21E-12	2.00E-12	1.50E-12	9.28E-13	3.54E-13	1.97E-14	1.60E-16
U 233	8.65E-15	9.07E-15	9.49E-15	1.07E-14	1.26E-14	1.65E-14	2.91E-14	5.29E-14	1.11E-13	3.53E-13	8.99E-13
U 234	2.41E-11	2.60E-11	2.79E-11	3.36E-11	4.26E-11	5.97E-11	1.04E-10	1.57E-10	2.18E-10	2.63E-10	2.68E-10

U 235	3.07E-12	3.07E-12	3.07E-12	3.08E-12	3.08E-12	3.08E-12	3.08E-12	3.08E-12	3.08E-12	3.09E-12	3.12E-12	3.15E-12
U 236	5.86E-11	5.86E-11	5.86E-11	5.86E-11	5.86E-11	5.86E-11	5.87E-11	5.88E-11	5.90E-11	5.94E-11	6.05E-11	6.23E-11
U 237	1.33E-11	3.54E-11	3.37E-11	2.92E-11	2.30E-11	1.42E-11	3.35E-12	3.02E-13	2.45E-15	1.32E-21	4.66E-32	
U 238	6.16E-11	6.16E-11	6.16E-11	6.16E-11	6.16E-11	6.16E-11	6.16E-11	6.16E-11	6.16E-11	6.16E-11	6.16E-11	6.16E-11
U 240	2.22E-18	4.88E-18	4.88E-18	4.88E-18	4.88E-18	4.88E-18	4.88E-18	4.88E-18	4.88E-18	4.88E-18	4.88E-18	4.88E-18
NP237	8.74E-11	8.75E-11	8.77E-11	8.82E-11	8.93E-11	9.19E-11	1.02E-10	1.19E-10	1.50E-10	2.18E-10	2.79E-10	
NP238	4.27E-13	9.02E-13	8.98E-13	8.86E-13	8.66E-13	8.28E-13	7.22E-13	5.75E-13	3.64E-13	9.28E-14	9.50E-15	
NP239	2.55E-10	5.23E-10	5.23E-10	5.23E-10	5.22E-10	5.22E-10	5.20E-10	5.18E-10	5.13E-10	4.99E-10	4.76E-10	
NP240M	1.57E-17	3.44E-17	3.44E-17	3.44E-17	3.44E-17	3.44E-17	3.44E-17	3.44E-17	3.44E-17	3.44E-17	3.44E-17	3.44E-17
PU238	7.80E-07	7.75E-07	7.69E-07	7.51E-07	7.22E-07	6.67E-07	5.27E-07	3.55E-07	1.61E-07	1.53E-08	3.15E-10	
PU239	9.25E-08	9.25E-08	9.24E-08	9.24E-08	9.24E-08	9.24E-08	9.23E-08	9.22E-08	9.20E-08	9.12E-08	9.00E-08	
PU240	1.52E-07	1.52E-07	1.52E-07	1.52E-07	1.52E-07	1.52E-07	1.52E-07	1.52E-07	1.50E-07	1.45E-07	1.38E-07	
PU241	2.42E-08	2.30E-08	2.20E-08	1.90E-08	1.49E-08	9.23E-09	2.18E-09	1.96E-10	1.60E-12	8.56E-19	3.03E-29	
PU242	6.39E-10	6.39E-10	6.39E-10	6.39E-10	6.39E-10	6.39E-10	6.39E-10	6.39E-10	6.39E-10	6.38E-10	6.38E-10	
PU244	1.72E-16	1.72E-16	1.72E-16	1.72E-16	1.72E-16	1.72E-16	1.72E-16	1.72E-16	1.72E-16	1.72E-16	1.72E-16	
AM241	4.88E-07	5.28E-07	5.66E-07	6.70E-07	8.11E-07	1.00E-06	1.20E-06	1.18E-06	1.01E-06	6.24E-07	2.80E-07	
AM242M	1.49E-11	1.49E-11	1.48E-11	1.46E-11	1.43E-11	1.36E-11	1.19E-11	9.47E-12	6.00E-12	1.53E-12	1.57E-13	
AM242	2.07E-11	4.36E-11	4.34E-11	4.28E-11	4.18E-11	3.99E-11	3.48E-11	2.77E-11	1.76E-11	4.48E-12	4.58E-13	
AM243	6.97E-09	6.97E-09	6.97E-09	6.97E-09	6.97E-09	6.96E-09	6.94E-09	6.91E-09	6.84E-09	6.65E-09	6.35E-09	
CM242	2.89E-07	6.22E-08	1.41E-08	1.25E-09	1.10E-09	1.05E-09	9.14E-10	7.28E-10	4.61E-10	1.17E-10	1.20E-11	
CM243	5.46E-09	5.32E-09	5.20E-09	4.83E-09	4.28E-09	3.35E-09	1.62E-09	4.80E-10	4.22E-11	2.86E-14	1.50E-19	
CM244	7.19E-07	6.92E-07	6.66E-07	5.94E-07	4.90E-07	3.34E-07	1.06E-07	1.57E-08	3.41E-10	3.53E-15	1.73E-23	
TOTAL	2.56E-06	2.34E-06	2.30E-06	2.29E-06	2.30E-06	2.27E-06	2.09E-06	1.80E-06	1.42E-06	8.85E-07	5.16E-07	

FISSION PRODUCTS

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = GUSSBH. TYP II, 16/2

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	1.20E+08	1.13E+08	1.07E+08	9.07E+07	6.85E+07	3.91E+07	7.26E+06	4.39E+05	1.60E+03	7.83E-05	5.10E-17
SR 90	2.70E+10	2.64E+10	2.58E+10	2.40E+10	2.13E+10	1.68E+10	8.22E+09	2.50E+09	2.32E+08	1.84E+05	1.25E+00
Y 90	2.70E+10	2.64E+10	2.58E+10	2.40E+10	2.13E+10	1.68E+10	8.22E+09	2.50E+09	2.32E+08	1.84E+05	1.25E+00
ZR 93	6.70E+04	6.70E+04	6.70E+04	6.70E+04	6.70E+04	6.70E+04	6.70E+04	6.70E+04	6.70E+04	6.70E+04	6.70E+04
NB 93M	1.40E+04	1.65E+04	1.88E+04	2.52E+04	3.38E+04	4.57E+04	5.98E+04	6.34E+04	6.37E+04	6.37E+04	6.36E+04
NB 94	8.50E+03	8.50E+03	8.50E+03	8.50E+03	8.50E+03	8.50E+03	8.49E+03	8.47E+03	8.45E+03	8.36E+03	8.22E+03
TC 99	3.20E+07	3.20E+07	3.20E+07	3.20E+07	3.20E+07	3.20E+07	3.20E+07	3.20E+07	3.20E+07	3.20E+07	3.19E+07
RU106	6.70E+07	3.37E+07	1.69E+07	2.15E+06	6.93E+04	7.16E+01	7.90E-08	9.31E-23	0.0	0.0	0.0
RH106	6.70E+07	3.37E+07	1.69E+07	2.15E+06	6.93E+04	7.16E+01	7.90E-08	9.31E-23	0.0	0.0	0.0
PD107	9.40E+02	9.40E+02	9.40E+02	9.40E+02	9.40E+02	9.40E+02	9.40E+02	9.40E+02	9.40E+02	9.40E+02	9.40E+02
AG110	2.60E+02	5.32E+05	1.93E+05	9.24E+03	5.84E+01	2.33E-03	1.48E-16	0.0	0.0	0.0	0.0
AG110M	1.10E+08	4.00E+07	1.45E+07	6.95E+05	4.39E+03	1.75E-01	1.11E-14	0.0	0.0	0.0	0.0
SN126	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.79E+05	4.77E+05
SD125	7.90E+09	6.15E+09	4.78E+09	2.25E+09	6.42E+08	5.21E+07	2.79E+04	9.88E-02	1.24E-12	0.0	0.0
SB126	3.20E+04	6.72E+04	6.72E+04	6.72E+04	6.72E+04	6.72E+04	6.72E+04	6.72E+04	6.71E+04	6.70E+04	6.68E+04
SB126M	2.30E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.79E+05	4.77E+05
TE125M	7.40E+09	1.57E+09	1.17E+09	5.50E+08	1.57E+08	1.27E+07	6.82E+03	2.41E-02	3.02E-13	0.0	0.0
I 129	1.60E+07	1.60E+07	1.60E+07	1.60E+07	1.60E+07	1.60E+07	1.60E+07	1.60E+07	1.60E+07	1.60E+07	1.60E+07
CS134	2.60E+10	1.86E+10	1.33E+10	4.85E+09	9.03E+08	3.13E+07	1.31E+03	6.60E-05	1.67E-19	0.0	0.0
CS135	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06
CS137	7.60E+11	7.43E+11	7.26E+11	6.77E+11	6.03E+11	4.79E+11	2.40E+11	7.55E+10	7.49E+09	7.33E+06	7.06E+01
BA137M	7.20E+11	7.03E+11	6.87E+11	6.41E+11	5.71E+11	4.53E+11	2.27E+11	7.14E+10	7.09E+09	6.93E+06	6.68E+01
CE144	5.80E+08	2.38E+08	9.78E+07	6.76E+06	7.88E+04	1.07E+01	2.68E-11	1.24E-30	0.0	0.0	0.0
PR144	5.80E+08	2.38E+08	9.78E+07	6.76E+06	7.88E+04	1.07E+01	2.68E-11	1.24E-30	0.0	0.0	0.0
PR144M	6.70E+06	2.86E+06	1.17E+06	8.11E+04	9.46E+02	1.28E-01	3.22E-13	1.49E-32	0.0	0.0	0.0
ND144	2.00E-07	3.27E-07	3.79E-07	4.13E-07	4.15E-07	4.15E-07	4.15E-07	4.15E-07	4.15E-07	4.15E-07	4.15E-07
PM147	1.20E+09	9.22E+08	7.08E+08	3.20E+08	8.55E+07	6.10E+06	2.21E+03	4.05E-03	1.37E-14	0.0	0.0
SM147	2.20E-02	2.88E-02	3.41E-02	4.36E-02	4.93E-02	5.13E-02	5.14E-02	5.14E-02	5.14E-02	5.14E-02	5.14E-02
SM148	1.30E-24	1.51E-24	1.76E-24	2.82E-24	5.29E-24	1.20E-23	3.97E-23	9.29E-23	2.02E-22	5.29E-22	1.07E-21
EU152	2.90E+05	2.76E+05	2.62E+05	2.25E+05	1.74E+05	1.05E+05	2.27E+04	1.78E+03	1.09E+01	2.50E-06	2.16E-17
EU154	4.90E+08	4.52E+08	4.17E+08	3.28E+08	2.19E+08	9.78E+07	8.72E+06	1.55E+05	4.91E+01	1.56E-09	4.96E-27
EU155	1.60E+08	1.39E+08	1.21E+08	7.96E+07	3.96E+07	9.78E+06	1.48E+05	1.37E+02	1.17E-04	7.26E-23	0.0
GD152	2.40E-09	2.91E-09	3.39E-09	4.69E-09	6.46E-09	8.91E-09	1.18E-08	1.25E-08	1.26E-08	1.26E-08	1.26E-08
TOTAL	1.58E+12	1.53E+12	1.49E+12	1.37E+12	1.22E+12	9.66E+11	4.83E+11	1.52E+11	1.51E+10	6.76E+07	5.29E+07

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 16/2

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	1.10E-07	1.04E-07	9.80E-08	8.28E-08	6.25E-08	3.57E-08	6.63E-09	4.01E-10	1.46E-12	7.15E-20	4.66E-32
SR 90	8.47E-04	8.27E-04	8.08E-04	7.52E-04	6.68E-04	5.26E-04	2.58E-04	7.84E-05	7.26E-06	5.76E-09	3.92E-14
Y 90	4.05E-03	3.95E-03	3.86E-03	3.59E-03	3.19E-03	2.51E-03	1.23E-03	3.75E-04	3.47E-05	2.75E-08	1.87E-13
ZR 93	2.10E-10	2.10E-10	2.10E-10	2.10E-10	2.10E-10	2.10E-10	2.10E-10	2.10E-10	2.10E-10	2.10E-10	2.10E-10
NB 93M	6.71E-11	7.89E-11	9.01E-11	1.21E-10	1.62E-10	2.19E-10	2.86E-10	3.04E-10	3.05E-10	3.05E-10	3.05E-10
NB 94	2.34E-09	2.34E-09	2.34E-09	2.34E-09	2.34E-09	2.34E-09	2.34E-09	2.33E-09	2.33E-09	2.30E-09	2.26E-09
TC 99	4.34E-07	4.34E-07	4.34E-07	4.34E-07	4.34E-07	4.34E-07	4.34E-07	4.34E-07	4.34E-07	4.33E-07	4.32E-07
RU106	1.07E-07	5.40E-08	2.72E-08	3.45E-09	1.11E-10	1.15E-13	1.27E-22	1.49E-37	0.0	0.0	0.0
RH106	1.74E-05	8.74E-06	4.39E-06	5.59E-07	1.80E-08	1.86E-11	2.05E-20	2.41E-35	0.0	0.0	0.0
PD107	1.51E-12	1.51E-12	1.51E-12	1.51E-12	1.51E-12	1.51E-12	1.51E-12	1.51E-12	1.51E-12	1.51E-12	1.51E-12
AG110	5.05E-11	1.03E-07	3.75E-08	1.80E-09	1.13E-11	4.52E-16	2.87E-29	0.0	0.0	0.0	0.0
AG110M	4.97E-05	1.80E-05	6.55E-06	3.14E-07	1.98E-09	7.91E-14	5.02E-27	0.0	0.0	0.0	0.0
SN126	1.62E-08	1.62E-08	1.62E-08	1.62E-08	1.62E-08	1.62E-08	1.62E-08	1.62E-08	1.62E-08	1.61E-08	1.61E-08
SB125	6.68E-04	5.20E-04	4.04E-04	1.90E-04	5.42E-05	4.41E-06	2.36E-09	8.35E-15	1.04E-25	0.0	0.0
SB126	1.60E-08	3.36E-08	3.36E-08	3.36E-08	3.36E-08	3.36E-08	3.36E-08	3.35E-08	3.35E-08	3.35E-08	3.33E-08
SB126M	7.92E-08	1.65E-07	1.65E-07	1.65E-07	1.65E-07	1.65E-07	1.65E-07	1.65E-07	1.65E-07	1.65E-07	1.64E-07
TE125M	1.68E-04	3.57E-05	2.65E-05	1.25E-05	3.56E-06	2.89E-07	1.55E-10	5.48E-16	6.85E-27	0.0	0.0
I 129	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07
CS134	7.15E-03	5.11E-03	3.65E-03	1.33E-03	2.48E-04	8.62E-06	3.60E-10	1.81E-17	4.60E-32	0.0	0.0
CS135	3.43E-08	3.43E-08	3.43E-08	3.43E-08	3.43E-08	3.43E-08	3.43E-08	3.43E-08	3.43E-08	3.43E-08	3.43E-08
CS137	2.27E-02	2.22E-02	2.17E-02	2.03E-02	1.80E-02	1.43E-02	7.16E-03	2.26E-03	2.24E-04	2.19E-07	2.11E-12
BA137M	7.64E-02	7.46E-02	7.29E-02	6.80E-02	6.06E-02	4.81E-02	2.40E-02	7.58E-03	7.52E-04	7.35E-07	7.09E-12
CE144	1.04E-05	4.27E-06	1.75E-06	1.21E-07	1.41E-09	1.92E-13	4.81E-25	2.22E-44	0.0	0.0	0.0
PR144	1.15E-04	4.73E-05	1.94E-05	1.34E-06	1.57E-08	2.13E-12	5.33E-24	2.46E-43	0.0	0.0	0.0
PR144M	6.20E-08	2.64E-08	1.08E-08	7.50E-10	8.74E-12	1.19E-15	2.97E-27	1.37E-46	0.0	0.0	0.0
PM147	1.16E-05	8.93E-06	6.86E-06	3.11E-06	8.29E-07	5.91E-08	2.14E-11	3.93E-17	1.32E-28	0.0	0.0
SM147	8.15E-15	1.07E-14	1.26E-14	1.61E-14	1.83E-14	1.90E-14	1.90E-14	1.90E-14	1.90E-14	1.90E-14	1.90E-14
SM148	4.20E-37	4.87E-37	5.68E-37	9.11E-37	1.71E-36	3.87E-36	1.28E-35	3.00E-35	6.51E-35	1.71E-34	3.46E-34
EU152	5.94E-08	5.65E-08	5.37E-08	4.61E-08	3.57E-08	2.15E-08	4.65E-09	3.64E-10	2.23E-12	5.13E-19	4.42E-30
EU154	1.19E-04	1.09E-04	1.01E-04	7.92E-05	5.29E-05	2.37E-05	2.11E-06	3.75E-08	1.19E-11	3.77E-22	1.20E-39
EU155	3.15E-06	2.74E-06	2.38E-06	1.56E-06	7.78E-07	1.92E-07	2.91E-09	2.69E-12	2.29E-18	1.43E-36	0.0
GD152	8.45E-22	1.02E-21	1.19E-21	1.65E-21	2.28E-21	3.14E-21	4.15E-21	4.41E-21	4.43E-21	4.43E-21	4.43E-21
TOTAL	1.12E-01	1.07E-01	1.03E-01	9.42E-02	8.28E-02	6.55E-02	3.27E-02	1.03E-02	1.02E-03	1.87E-06	8.83E-07

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

	RADIOACTIVITY , BECQUEREL										
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	2.36E+12	2.15E+12	1.98E+12	1.63E+12	1.33E+12	1.01E+12	5.05E+11	1.67E+11	2.27E+10	1.28E+09	5.26E+08
	THERMAL POWER, WATTS										
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	1.86E-01	1.70E-01	1.56E-01	1.27E-01	9.83E-02	6.95E-02	3.31E-02	1.05E-02	1.14E-03	5.38E-05	4.44E-05

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP II, 16/4

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	7.00E+08	7.00E+08	7.00E+08	7.00E+08	6.99E+08	6.99E+08	6.96E+08	6.92E+08	6.84E+08	6.59E+08	6.21E+08
NA 22	5.30E+05	4.06E+05	3.11E+05	1.40E+05	3.70E+04	2.58E+03	8.73E-01	1.44E-06	3.90E-18	0.0	0.0
CL 36	2.90E+06	2.90E+06	2.90E+06	2.90E+06	2.90E+06	2.90E+06	2.90E+06	2.90E+06	2.90E+06	2.90E+06	2.89E+06
V 49	8.60E+05	4.00E+05	1.86E+05	1.86E+04	4.01E+02	1.87E-01	1.90E-11	4.18E-28	0.0	0.0	0.0
MN 54	2.00E+07	8.90E+06	3.96E+06	3.49E+05	6.08E+03	1.85E+00	5.17E-11	1.33E-28	0.0	0.0	0.0
FE 55	1.40E+12	1.07E+12	8.22E+11	3.69E+11	9.74E+10	6.78E+09	2.28E+06	3.72E+00	9.89E-12	0.0	0.0
CO 60	4.30E+11	3.77E+11	3.31E+11	2.23E+11	1.15E+11	3.10E+10	6.00E+08	8.37E+05	1.63E+00	1.20E-17	0.0
NI 59	9.50E+08	9.50E+08	9.50E+08	9.50E+08	9.50E+08	9.50E+08	9.50E+08	9.50E+08	9.49E+08	9.46E+08	9.42E+08
NI 63	8.60E+10	8.54E+10	8.47E+10	8.29E+10	7.98E+10	7.40E+10	5.90E+10	4.05E+10	1.91E+10	1.99E+09	4.61E+07
ZN 65	1.70E+09	6.02E+08	2.13E+08	9.48E+06	5.28E+04	1.64E+00	4.93E-14	0.0	0.0	0.0	0.0
TOTAL	1.92E+12	1.54E+12	1.24E+12	6.77E+11	2.94E+11	1.13E+11	6.13E+10	4.22E+10	2.07E+10	3.60E+09	1.61E+09

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 16/4

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	5.55E-06	5.55E-06	5.55E-06	5.55E-06	5.55E-06	5.54E-06	5.52E-06	5.49E-06	5.42E-06	5.23E-06	4.92E-06
NA 22	2.03E-07	1.55E-07	1.19E-07	5.35E-08	1.41E-08	9.85E-10	3.34E-13	5.50E-19	1.49E-30	0.0	0.0
CL 36	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.14E-07
V 49	5.93E-10	2.75E-10	1.28E-10	1.28E-11	2.76E-13	1.29E-16	1.31E-26	2.88E-43	0.0	0.0	0.0
MN 54	2.69E-06	1.20E-06	5.33E-07	4.69E-08	8.18E-10	2.48E-13	6.95E-24	1.80E-41	0.0	0.0	0.0
FE 55	5.21E-02	3.99E-02	3.05E-02	1.37E-02	3.62E-03	2.52E-04	8.49E-08	1.38E-13	3.68E-25	0.0	0.0
CO 60	1.79E-01	1.57E-01	1.38E-01	9.29E-02	4.81E-02	1.29E-02	2.50E-04	3.49E-07	6.78E-13	4.99E-30	0.0
NI 59	1.64E-04	1.64E-04	1.64E-04	1.64E-04	1.64E-04	1.63E-04	1.63E-04	1.63E-04	1.63E-04	1.63E-04	1.62E-04
NI 63	9.24E-04	9.17E-04	9.10E-04	8.89E-04	8.56E-04	7.94E-04	6.34E-04	4.35E-04	2.05E-04	2.14E-05	4.94E-07
ZN 65	1.61E-04	5.70E-05	2.02E-05	8.98E-07	5.00E-09	1.56E-13	4.67E-27	0.0	0.0	0.0	0.0
TOTAL	2.33E-01	1.98E-01	1.69E-01	1.08E-01	5.28E-02	1.41E-02	1.05E-03	6.04E-04	3.74E-04	1.90E-04	1.68E-04

ACTINIDES

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = GUSSBH. TYP II, 16/4

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	2.20E-03	2.62E-03	3.09E-03	4.68E-03	7.96E-03	1.65E-02	5.19E-02	1.25E-01	2.82E-01	8.07E-01	1.60E+00
TL208	8.50E+00	8.47E+02	8.10E+02	6.58E+02	4.21E+02	1.62E+02	1.65E+01	7.35E+00	2.80E+00	1.56E-01	1.29E-03
TL209	2.30E-06	2.65E-06	3.12E-06	4.63E-06	7.53E-06	1.47E-05	4.80E-05	1.46E-04	5.36E-04	3.76E-03	1.83E-02
PB209	1.00E-04	1.20E-04	1.42E-04	2.11E-04	3.42E-04	6.69E-04	2.18E-03	6.66E-03	2.44E-02	1.71E-01	8.30E-01
PB210	1.10E-05	1.37E-05	1.68E-05	2.97E-05	6.71E-05	2.38E-04	2.45E-03	1.87E-02	1.43E-01	1.89E+00	8.64E+00
PB211	2.20E-03	2.63E-03	3.10E-03	4.69E-03	7.98E-03	1.65E-02	5.21E-02	1.25E-01	2.83E-01	8.10E-01	1.61E+00
PB212	2.40E+03	2.36E+03	2.26E+03	1.83E+03	1.17E+03	4.51E+02	4.61E+01	2.05E+01	7.80E+00	4.34E-01	3.60E-03
PB214	8.50E-05	1.07E-04	1.27E-04	2.01E-04	3.88E-04	1.07E-03	6.93E-03	3.67E-02	2.08E-01	1.89E+00	8.64E+00
BI210	1.10E-05	1.37E-05	1.68E-05	2.98E-05	6.71E-05	2.38E-04	2.45E-03	1.87E-02	1.43E-01	1.89E+00	8.64E+00
BI211	2.20E-03	2.63E-03	3.10E-03	4.69E-03	7.98E-03	1.65E-02	5.21E-02	1.25E-01	2.83E-01	8.10E-01	1.61E+00
BI212	2.40E+01	2.36E+03	2.26E+03	1.83E+03	1.17E+03	4.51E+02	4.61E+01	2.05E+01	7.80E+00	4.34E-01	3.60E-03
BI213	1.00E-04	1.20E-04	1.42E-04	2.11E-04	3.42E-04	6.69E-04	2.18E-03	6.66E-03	2.44E-02	1.71E-01	8.30E-01
BI214	8.50E-05	1.07E-04	1.27E-04	2.01E-04	3.88E-04	1.07E-03	6.93E-03	3.67E-02	2.08E-01	1.89E+00	8.64E+00
PO210	1.10E-05	1.23E-05	1.50E-05	2.69E-05	6.71E-05	2.38E-04	2.45E-03	1.87E-02	1.43E-01	1.89E+00	8.64E+00
PO211	6.70E-06	7.90E-06	9.29E-06	1.41E-05	2.40E-05	4.95E-05	1.56E-04	3.76E-04	8.48E-04	2.43E-03	4.82E-03
PO212	1.50E+01	1.51E+03	1.45E+03	1.17E+03	7.51E+02	2.89E+02	2.95E+01	1.31E+01	5.00E+00	2.78E-01	2.31E-03
PO213	1.00E-04	1.18E-04	1.38E-04	2.06E-04	3.35E-04	6.55E-04	2.13E-03	6.51E-03	2.38E-02	1.67E-01	8.11E-01
PO214	8.50E-05	1.07E-04	1.27E-04	2.01E-04	3.88E-04	1.07E-03	6.93E-03	3.67E-02	2.08E-01	1.89E+00	8.64E+00
PO215	2.20E-03	2.63E-03	3.10E-03	4.69E-03	7.98E-03	1.65E-02	5.21E-02	1.25E-01	2.83E-01	8.10E-01	1.61E+00
PO216	2.40E+01	2.36E+03	2.26E+03	1.83E+03	1.17E+03	4.51E+02	4.61E+01	2.05E+01	7.80E+00	4.34E-01	3.60E-03
PO218	8.50E-05	1.07E-04	1.27E-04	2.01E-04	3.88E-04	1.07E-03	6.93E-03	3.67E-02	2.08E-01	1.89E+00	8.64E+00
AT217	1.00E-04	1.20E-04	1.42E-04	2.11E-04	3.42E-04	6.69E-04	2.18E-03	6.66E-03	2.44E-02	1.71E-01	8.30E-01
RN219	2.20E-03	2.63E-03	3.10E-03	4.69E-03	7.98E-03	1.65E-02	5.21E-02	1.25E-01	2.83E-01	8.10E-01	1.61E+00
RN220	2.40E+01	2.36E+03	2.26E+03	1.83E+03	1.17E+03	4.51E+02	4.61E+01	2.05E+01	7.80E+00	4.34E-01	3.60E-03
RN222	9.00E-05	1.07E-04	1.27E-04	2.01E-04	3.88E-04	1.07E-03	6.93E-03	3.67E-02	2.08E-01	1.89E+00	8.64E+00
FR221	1.00E-04	1.20E-04	1.42E-04	2.11E-04	3.42E-04	6.69E-04	2.18E-03	6.66E-03	2.44E-02	1.71E-01	8.30E-01
FR223	3.10E-05	3.68E-05	4.33E-05	6.56E-05	1.12E-04	2.31E-04	7.29E-04	1.76E-03	3.96E-03	1.13E-02	2.25E-02
RA223	2.20E-03	2.63E-03	3.10E-03	4.69E-03	7.98E-03	1.65E-02	5.21E-02	1.25E-01	2.83E-01	8.10E-01	1.61E+00
RA224	2.40E+03	2.36E+03	2.26E+03	1.83E+03	1.17E+03	4.51E+02	4.61E+01	2.05E+01	7.80E+00	4.34E-01	3.60E-03
RA225	1.00E-04	1.20E-04	1.42E-04	2.11E-04	3.42E-04	6.69E-04	2.18E-03	6.66E-03	2.44E-02	1.71E-01	8.30E-01
RA226	9.00E-05	1.07E-04	1.27E-04	2.01E-04	3.88E-04	1.07E-03	6.93E-03	3.67E-02	2.08E-01	1.89E+00	8.64E+00
RA228	2.30E+03	2.07E+03	1.87E+03	1.37E+03	8.18E+02	2.91E+02	1.31E+01	7.41E-02	1.72E-05	3.60E-05	7.23E-05
AC225	1.00E-04	1.20E-04	1.42E-04	2.11E-04	3.42E-04	6.69E-04	2.18E-03	6.66E-03	2.44E-02	1.71E-01	8.30E-01
AC227	2.20E-03	2.63E-03	3.09E-03	4.69E-03	7.97E-03	1.65E-02	5.21E-02	1.25E-01	2.83E-01	8.10E-01	1.61E+00
AC228	2.30E+03	2.08E+03	1.87E+03	1.37E+03	8.18E+02	2.91E+02	1.31E+01	7.41E-02	1.72E-05	3.60E-05	7.23E-05
TH227	2.20E-03	2.60E-03	3.05E-03	4.63E-03	7.87E-03	1.63E-02	5.14E-02	1.24E-01	2.79E-01	7.99E-01	1.58E+00
TH228	2.40E+03	2.35E+03	2.25E+03	1.83E+03	1.17E+03	4.50E+02	4.61E+01	2.05E+01	7.80E+00	4.34E-01	3.60E-03
TH229	1.00E-04	1.20E-04	1.42E-04	2.11E-04	3.42E-04	6.69E-04	2.18E-03	6.66E-03	2.44E-02	1.71E-01	8.30E-01
TH230	3.70E-02	4.23E-02	4.79E-02	6.73E-02	1.07E-01	2.15E-01	7.39E-01	2.14E+00	6.20E+00	2.20E+01	5.01E+01
TH231	7.50E+01	7.50E+01	7.50E+01	7.50E+01	7.51E+01	7.51E+01	7.51E+01	7.52E+01	7.54E+01	7.61E+01	7.71E+01
TH232	8.70E-07	9.39E-07	1.01E-06	1.22E-06	1.56E-06	2.25E-06	4.33E-06	7.80E-06	1.48E-05	3.60E-05	7.23E-05
TH234	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03
PA231	1.50E-02	1.66E-02	1.82E-02	2.30E-02	3.09E-02	4.68E-02	9.44E-02	1.74E-01	3.33E-01	8.10E-01	1.61E+00
PA233	2.00E+03	2.00E+03	2.01E+03	2.02E+03	2.04E+03	2.11E+03	2.33E+03	2.73E+03	3.46E+03	5.06E+03	6.49E+03
PA234M	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03
PA234	2.20E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00
U 232	5.20E+01	5.15E+01	5.10E+01	4.96E+01	4.72E+01	4.29E+01	3.21E+01	1.99E+01	7.59E+00	4.23E-01	3.43E-03
U 233	2.10E-01	2.20E-01	2.29E-01	2.57E-01	3.01E-01	3.92E-01	6.82E-01	1.24E+00	2.59E+00	8.26E+00	2.11E+01
U 234	5.60E+02	6.05E+02	6.50E+02	7.83E+02	9.97E+02	1.40E+03	2.44E+03	3.70E+03	5.13E+03	6.21E+03	6.31E+03

U 235	7.50E+01	7.50E+01	7.50E+01	7.50E+01	7.51E+01	7.51E+01	7.51E+01	7.52E+01	7.54E+01	7.61E+01	7.71E+01
U 236	1.40E+03	1.40E+03	1.40E+03	1.40E+03	1.40E+03	1.40E+03	1.41E+03	1.41E+03	1.42E+03	1.45E+03	1.49E+03
U 237	4.90E+03	1.29E+04	1.23E+04	1.06E+04	8.36E+03	5.16E+03	1.22E+03	1.10E+02	8.93E-01	4.79E-07	1.70E-17
U 238	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03	1.70E+03
U 240	1.80E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03
NP237	2.00E+03	2.00E+03	2.01E+03	2.02E+03	2.04E+03	2.11E+03	2.33E+03	2.73E+03	3.46E+03	5.06E+03	6.49E+03
NP238	6.20E+01	1.29E+02	1.29E+02	1.27E+02	1.24E+02	1.19E+02	1.04E+02	8.24E+01	5.23E+01	1.33E+01	1.36E+00
NP239	6.90E+04	1.40E+05	1.40E+05	1.40E+05	1.40E+05	1.40E+05	1.39E+05	1.39E+05	1.37E+05	1.34E+05	1.28E+05
NP240M	1.80E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03
PU238	1.60E+07	1.59E+07	1.58E+07	1.54E+07	1.48E+07	1.37E+07	1.08E+07	7.29E+06	3.31E+06	3.13E+05	6.47E+03
PU239	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.09E+06	2.07E+06	2.05E+06
PU240	3.30E+06	3.30E+06	3.30E+06	3.31E+06	3.31E+06	3.32E+06	3.32E+06	3.30E+06	3.27E+06	3.17E+06	3.00E+06
PU241	5.40E+08	5.15E+08	4.91E+08	4.25E+08	3.34E+08	2.06E+08	4.87E+07	4.39E+06	3.57E+04	1.91E-02	6.78E-13
PU242	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04
PU244	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03
AM241	1.00E+07	1.08E+07	1.16E+07	1.38E+07	1.67E+07	2.06E+07	2.47E+07	2.42E+07	2.08E+07	1.28E+07	5.76E+06
AM242M	2.60E+04	2.59E+04	2.58E+04	2.54E+04	2.49E+04	2.37E+04	2.07E+04	1.65E+04	1.05E+04	2.66E+03	2.72E+02
AM242	1.20E+04	2.58E+04	2.56E+04	2.53E+04	2.47E+04	2.36E+04	2.06E+04	1.64E+04	1.04E+04	2.65E+03	2.71E+02
AM243	1.40E+05	1.40E+05	1.40E+05	1.40E+05	1.40E+05	1.40E+05	1.39E+05	1.39E+05	1.37E+05	1.34E+05	1.28E+05
CM242	5.70E+06	1.23E+06	2.77E+05	2.34E+04	2.05E+04	1.95E+04	1.70E+04	1.36E+04	8.60E+03	2.19E+03	2.24E+02
CM243	1.10E+05	1.07E+05	1.05E+05	9.74E+04	8.63E+04	6.77E+04	3.26E+04	9.67E+03	8.50E+02	5.78E-01	3.03E-06
CM244	1.40E+07	1.35E+07	1.30E+07	1.16E+07	9.55E+06	6.52E+06	2.07E+06	3.05E+05	6.65E+03	6.87E-02	3.37E-10
TOTAL	5.92E+08	5.62E+08	5.37E+08	4.71E+08	3.81E+08	2.53E+08	9.21E+07	4.20E+07	2.98E+07	1.87E+07	1.11E+07

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 16/4

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	1.75E-16	2.08E-16	2.45E-16	3.71E-16	6.32E-16	1.31E-15	4.12E-15	9.93E-15	2.24E-14	6.41E-14	1.27E-13
TL208	5.41E-12	5.38E-10	5.15E-10	4.18E-10	2.67E-10	1.03E-10	1.05E-11	4.68E-12	1.78E-12	9.92E-14	8.22E-16
TL209	1.03E-18	1.19E-18	1.40E-18	2.08E-18	3.38E-18	6.61E-18	2.16E-17	6.58E-17	2.41E-16	1.69E-15	8.20E-15
PB209	3.11E-18	3.74E-18	4.40E-18	6.54E-18	1.06E-17	2.08E-17	6.78E-17	2.07E-16	7.57E-16	5.31E-15	2.58E-14
PB210	6.89E-20	8.57E-20	1.05E-19	1.86E-19	4.20E-19	1.49E-18	1.53E-17	1.17E-16	8.93E-16	1.19E-14	5.41E-14
PB211	1.78E-16	2.13E-16	2.51E-16	3.80E-16	6.47E-16	1.34E-15	4.22E-15	1.02E-14	2.29E-14	6.56E-14	1.30E-13
PB212	1.24E-10	1.21E-10	1.16E-10	9.43E-11	6.03E-11	2.32E-11	2.37E-12	1.05E-12	4.01E-13	2.23E-14	1.85E-16
PB214	7.33E-18	9.24E-18	1.09E-17	1.73E-17	3.34E-17	9.23E-17	5.97E-16	3.16E-15	1.79E-14	1.63E-13	7.45E-13
BI210	6.86E-19	8.53E-19	1.05E-18	1.85E-18	4.18E-18	1.48E-17	1.53E-16	1.17E-15	8.89E-15	1.18E-13	5.39E-13
BI211	2.37E-15	2.84E-15	3.34E-15	5.06E-15	8.61E-15	1.78E-14	5.61E-14	1.35E-13	3.05E-13	8.73E-13	1.73E-12
BI212	1.10E-11	1.04E-09	1.04E-09	8.42E-10	5.38E-10	2.07E-10	2.12E-11	9.42E-12	3.58E-12	2.00E-13	1.66E-15
BI213	1.14E-17	1.37E-17	1.61E-17	2.39E-17	3.89E-17	7.61E-17	2.48E-16	7.57E-16	2.77E-15	1.94E-14	9.43E-14
BI214	2.95E-17	3.71E-17	4.39E-17	6.96E-17	1.34E-16	3.71E-16	2.40E-15	1.27E-14	7.20E-14	6.56E-13	2.99E-12
PO210	9.53E-18	1.07E-17	1.30E-17	2.33E-17	5.81E-17	2.06E-16	2.12E-15	1.62E-14	1.24E-13	1.64E-12	7.49E-12
PO211	8.15E-18	9.61E-18	1.13E-17	1.71E-17	2.91E-17	6.03E-17	1.90E-16	4.58E-16	1.03E-15	2.96E-15	5.87E-15
PO212	2.15E-11	2.17E-09	2.08E-09	1.68E-09	1.08E-09	4.14E-10	4.24E-11	1.88E-11	7.17E-12	3.99E-13	3.31E-15
PO213	1.37E-16	1.61E-16	1.89E-16	2.82E-16	4.58E-16	8.95E-16	2.92E-15	8.91E-15	3.26E-14	2.28E-13	1.11E-12
PO214	1.07E-16	1.34E-16	1.59E-16	2.52E-16	4.86E-16	1.34E-15	8.69E-15	4.60E-14	2.61E-13	2.38E-12	1.08E-11
PO215	2.65E-15	3.17E-15	3.73E-15	5.66E-15	9.63E-15	1.99E-14	6.28E-14	1.51E-13	3.41E-13	9.77E-12	1.94E-12
PO216	2.57E-11	2.52E-09	2.41E-09	1.96E-09	1.25E-09	4.82E-10	4.93E-11	2.19E-11	8.34E-12	4.65E-13	3.85E-15
PO218	8.33E-17	1.05E-16	1.24E-16	1.97E-16	3.80E-16	1.05E-15	6.78E-15	3.59E-14	2.04E-13	1.86E-12	8.47E-12
AT217	1.15E-16	1.39E-16	1.63E-16	2.43E-16	3.95E-16	7.72E-16	2.52E-15	7.68E-15	2.81E-14	1.97E-13	9.57E-13
RN219	2.45E-15	2.93E-15	3.45E-15	5.22E-15	8.88E-15	1.84E-14	5.80E-14	1.40E-13	3.15E-13	9.01E-13	1.79E-12
RN220	2.46E-11	2.42E-09	2.32E-09	1.88E-09	1.20E-09	4.62E-10	4.73E-11	2.10E-11	8.00E-12	4.46E-13	3.70E-15
RN222	8.06E-17	9.60E-17	1.13E-16	1.80E-16	3.47E-16	9.59E-16	6.20E-15	3.28E-14	1.86E-13	1.70E-12	7.74E-12
FR221	1.04E-16	1.25E-16	1.47E-16	2.18E-16	3.54E-16	6.93E-16	2.26E-15	6.89E-15	2.52E-14	1.77E-13	8.58E-13
FR223	2.18E-18	2.58E-18	3.04E-18	4.60E-18	7.84E-18	1.62E-17	5.12E-17	1.23E-16	2.78E-16	7.96E-16	1.58E-15
RA223	2.11E-15	2.52E-15	2.97E-15	4.50E-15	7.65E-15	1.58E-14	4.99E-14	1.20E-13	2.71E-13	7.76E-13	1.54E-12
RA224	2.23E-09	2.19E-09	2.09E-09	1.70E-09	1.09E-09	4.18E-10	4.28E-11	1.90E-11	7.23E-12	4.03E-13	3.34E-15
RA225	1.90E-18	2.28E-18	2.68E-18	3.99E-18	6.49E-18	1.27E-17	4.13E-17	1.26E-16	4.62E-16	3.24E-15	1.57E-14
RA226	7.03E-17	8.36E-17	9.88E-17	1.57E-16	3.02E-16	8.35E-16	5.40E-15	2.86E-14	1.62E-13	1.48E-12	6.75E-12
RA228	4.79E-12	4.32E-12	3.90E-12	2.86E-12	1.70E-12	6.06E-13	2.72E-14	1.54E-16	3.58E-20	7.50E-20	1.51E-19
AC225	9.51E-17	1.14E-16	1.35E-16	2.00E-16	3.26E-16	6.36E-16	2.07E-15	6.33E-15	2.32E-14	1.62E-13	7.89E-13
AC227	2.88E-17	3.44E-17	4.04E-17	6.13E-17	1.04E-16	2.16E-16	6.81E-16	1.64E-15	3.70E-15	1.06E-14	2.10E-14
AC228	5.37E-10	4.85E-10	4.37E-10	3.20E-10	1.91E-10	6.79E-11	3.05E-12	1.73E-14	4.01E-18	8.41E-18	1.69E-17
TH227	2.17E-15	2.56E-15	3.01E-15	4.56E-15	7.75E-15	1.60E-14	5.06E-14	1.22E-13	2.75E-13	7.86E-13	1.56E-12
TH228	2.12E-09	2.08E-09	1.99E-09	1.62E-09	1.03E-09	3.98E-10	4.08E-11	1.81E-11	6.89E-12	3.84E-13	3.18E-15
TH229	8.28E-17	9.97E-17	1.17E-16	1.74E-16	2.84E-16	5.54E-16	1.81E-15	5.51E-15	2.02E-14	1.41E-13	6.87E-13
TH230	2.83E-14	3.23E-14	3.66E-14	5.14E-14	8.21E-14	1.65E-13	5.65E-13	1.64E-12	4.74E-12	1.68E-11	3.83E-11
TH231	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.15E-12	1.17E-12
TH232	5.69E-19	6.14E-19	6.59E-19	7.95E-19	1.02E-18	1.47E-18	2.83E-18	5.10E-18	9.66E-18	2.35E-17	4.73E-17
TH234	1.86E-11	1.86E-11	1.86E-11	1.86E-11	1.86E-11	1.86E-11	1.86E-11	1.86E-11	1.86E-11	1.86E-11	1.86E-11
PA231	1.24E-14	1.37E-14	1.50E-14	1.89E-14	2.55E-14	3.86E-14	7.78E-14	1.43E-13	2.74E-13	6.68E-13	1.32E-12
PA233	1.23E-10	1.23E-10	1.23E-10	1.24E-10	1.25E-10	1.29E-10	1.43E-10	1.68E-10	2.12E-10	3.11E-10	3.98E-10
PA234M	2.27E-10	2.27E-10	2.27E-10	2.27E-10	2.27E-10	2.27E-10	2.27E-10	2.27E-10	2.27E-10	2.27E-10	2.27E-10
PA234	8.54E-13	8.58E-13	8.58E-13	8.58E-13	8.58E-13	8.58E-13	8.58E-13	8.58E-13	8.58E-13	8.58E-13	8.58E-13
U 232	4.51E-11	4.47E-11	4.43E-11	4.30E-11	4.10E-11	3.72E-11	2.79E-11	1.72E-11	6.58E-12	3.67E-13	2.98E-15
U 233	1.65E-13	1.73E-13	1.80E-13	2.02E-13	2.37E-13	3.08E-13	5.37E-13	9.72E-13	2.04E-12	6.50E-12	1.66E-11
U 234	4.36E-10	4.71E-10	5.06E-10	6.09E-10	7.76E-10	1.09E-09	1.90E-09	2.88E-09	3.99E-09	4.83E-09	4.91E-09

U 235	5.62E-11	5.62E-11	5.62E-11	5.63E-11	5.63E-11	5.63E-11	5.63E-11	5.64E-11	5.66E-11	5.70E-11	5.78E-11
U 236	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.03E-09	1.04E-09	1.06E-09	1.09E-09
U 237	2.51E-10	6.59E-10	6.28E-10	5.44E-10	4.27E-10	2.64E-10	6.23E-11	5.62E-12	4.57E-14	2.45E-20	8.68E-31
U 238	1.16E-09	1.16E-09	1.16E-09	1.16E-09	1.16E-09	1.16E-09	1.16E-09	1.16E-09	1.16E-09	1.16E-09	1.16E-09
U 240	3.99E-17	8.64E-17	8.64E-17	8.64E-17	8.64E-17	8.64E-17	8.64E-17	8.64E-17	8.64E-17	8.64E-17	8.64E-17
NP237	1.59E-09	1.59E-09	1.59E-09	1.60E-09	1.62E-09	1.67E-09	1.85E-09	2.17E-09	2.75E-09	4.02E-09	5.16E-09
NP238	8.03E-12	1.68E-11	1.67E-11	1.65E-11	1.61E-11	1.54E-11	1.34E-11	1.07E-11	6.76E-12	1.72E-12	1.76E-13
NP239	4.51E-09	9.15E-09	9.15E-09	9.15E-09	9.14E-09	9.13E-09	9.11E-09	9.06E-09	8.98E-09	8.73E-09	8.33E-09
NP240M	2.82E-16	6.10E-16	6.10E-16	6.10E-16	6.10E-16	6.10E-16	6.10E-16	6.10E-16	6.10E-16	6.10E-16	6.10E-16
PU238	1.43E-05	1.43E-05	1.41E-05	1.38E-05	1.33E-05	1.23E-05	9.69E-06	6.53E-06	2.97E-06	2.81E-07	5.80E-09
PU239	1.77E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.76E-06	1.74E-06	1.72E-06
PU240	2.78E-06	2.78E-06	2.78E-06	2.78E-06	2.79E-06	2.79E-06	2.79E-06	2.78E-06	2.75E-06	2.67E-06	2.53E-06
PU241	4.50E-07	4.29E-07	4.09E-07	3.54E-07	2.78E-07	1.72E-07	4.06E-08	3.66E-09	2.97E-11	1.59E-17	5.65E-28
PU242	1.12E-08	1.12E-08	1.12E-08	1.12E-08	1.12E-08	1.12E-08	1.12E-08	1.12E-08	1.12E-08	1.12E-08	1.12E-08
PU244	3.06E-15	3.06E-15	3.06E-15	3.06E-15	3.06E-15	3.06E-15	3.06E-15	3.06E-15	3.06E-15	3.06E-15	3.06E-15
AM241	9.04E-06	9.78E-06	1.05E-05	1.24E-05	1.50E-05	1.86E-05	2.23E-05	2.19E-05	1.88E-05	1.16E-05	5.20E-06
AM242M	2.78E-10	2.76E-10	2.75E-10	2.71E-10	2.65E-10	2.53E-10	2.21E-10	1.76E-10	1.12E-10	2.84E-11	2.91E-12
AM242	3.77E-10	8.09E-10	8.05E-10	7.94E-10	7.76E-10	7.42E-10	6.47E-10	5.15E-10	3.27E-10	8.32E-11	8.51E-12
AM243	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.21E-07	1.21E-07	1.20E-07	1.16E-07	1.11E-07
CM242	5.68E-06	1.22E-06	2.76E-07	2.33E-08	2.04E-08	1.95E-08	1.70E-08	1.35E-08	8.56E-09	2.18E-09	2.23E-10
CM243	1.09E-07	1.06E-07	1.04E-07	9.66E-08	8.56E-08	6.71E-08	3.24E-08	9.59E-09	8.43E-10	5.73E-13	3.01E-18
CM244	1.32E-05	1.27E-05	1.23E-05	1.09E-05	9.03E-06	6.16E-06	1.95E-06	2.88E-07	6.28E-09	6.50E-14	3.19E-22
TOTAL	4.76E-05	4.32E-05	4.24E-05	4.24E-05	4.25E-05	4.20E-05	3.88E-05	3.34E-05	2.64E-05	1.64E-05	9.60E-06

FISSION PRODUCTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP II, 16/4

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	2.00E+07	1.89E+07	1.79E+07	1.51E+07	1.14E+07	6.51E+06	1.21E+06	7.31E+04	2.67E+02	1.30E-05	8.51E-18
SR 90	6.10E+10	5.96E+10	5.82E+10	5.42E+10	4.81E+10	3.79E+10	1.86E+10	5.65E+09	5.23E+08	4.15E+05	2.82E+00
Y 90	6.10E+10	5.96E+10	5.82E+10	5.42E+10	4.81E+10	3.79E+10	1.86E+10	5.65E+09	5.23E+08	4.15E+05	2.82E+00
ZR 93	5.90E+04	5.90E+04	5.90E+04	5.90E+04	5.90E+04	5.90E+04	5.90E+04	5.90E+04	5.90E+04	5.90E+04	5.90E+04
NB 93M	1.60E+04	1.80E+04	1.99E+04	2.50E+04	3.20E+04	4.16E+04	5.29E+04	5.58E+04	5.61E+04	5.61E+04	5.60E+04
NB 94	7.70E+04	7.70E+04	7.70E+04	7.70E+04	7.70E+04	7.70E+04	7.69E+04	7.68E+04	7.65E+04	7.57E+04	7.44E+04
NB 95	3.80E+01	2.84E-02	2.12E-05	8.78E-15	2.03E-30	0.0	0.0	0.0	0.0	0.0	0.0
TC 99	4.90E+07	4.90E+07	4.90E+07	4.90E+07	4.90E+07	4.90E+07	4.90E+07	4.90E+07	4.90E+07	4.89E+07	4.89E+07
RU106	2.10E+08	1.06E+08	5.31E+07	6.75E+06	2.17E+05	2.24E+02	2.48E-07	2.92E-22	0.0	0.0	0.0
RH106	2.10E+08	1.06E+08	5.31E+07	6.75E+06	2.17E+05	2.24E+02	2.48E-07	2.92E-22	0.0	0.0	0.0
PD107	4.90E+02	4.90E+02	4.90E+02	4.90E+02	4.90E+02	4.90E+02	4.90E+02	4.90E+02	4.90E+02	4.90E+02	4.90E+02
AG108	0.0	2.04E+02	2.03E+02	1.99E+02	1.94E+02	1.84E+02	1.56E+02	1.19E+02	6.88E+01	1.34E+01	8.74E-01
AG108M	2.30E+03	2.29E+03	2.28E+03	2.24E+03	2.18E+03	2.06E+03	1.75E+03	1.33E+03	7.73E+02	1.50E+02	9.82E+00
AG110	1.40E+04	1.88E+07	6.84E+06	3.28E+05	2.07E+03	8.26E-02	5.25E-15	0.0	0.0	0.0	0.0
AG110M	3.90E+09	1.42E+09	5.15E+08	2.46E+07	1.56E+05	6.21E+00	3.94E-13	0.0	0.0	0.0	0.0
SN126	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.59E+05	2.58E+05
SB125	7.60E+09	5.92E+09	4.60E+09	2.17E+09	6.18E+08	5.02E+07	2.69E+04	9.51E-02	1.19E-12	0.0	0.0
SB126	2.10E+04	3.64E+04	3.64E+04	3.64E+04	3.64E+04	3.64E+04	3.64E+04	3.64E+04	3.64E+04	3.63E+04	3.62E+04
SB126M	1.50E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.60E+05	2.59E+05	2.58E+05
TE125M	6.90E+09	1.51E+09	1.12E+09	5.29E+08	1.51E+08	1.22E+07	6.56E+03	2.32E-02	2.90E-13	0.0	0.0
I 129	4.70E+05	4.70E+05	4.70E+05	4.70E+05	4.70E+05	4.70E+05	4.70E+05	4.70E+05	4.70E+05	4.70E+05	4.70E+05
CS134	7.80E+10	5.58E+10	3.98E+10	1.45E+10	2.71E+09	9.40E+07	3.93E+03	1.98E-04	5.02E-19	0.0	0.0
CS135	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06	2.10E+06
CS137	4.30E+11	4.20E+11	4.11E+11	3.83E+11	3.41E+11	2.71E+11	1.36E+11	4.27E+10	4.24E+09	4.14E+06	3.99E+01
BA137M	4.10E+11	3.98E+11	3.89E+11	3.63E+11	3.23E+11	2.56E+11	1.28E+11	4.04E+10	4.01E+09	3.92E+06	3.78E+01
CE144	3.80E+09	1.56E+09	6.41E+08	4.43E+07	5.16E+05	7.01E+01	1.76E-10	8.11E-30	0.0	0.0	0.0
PR144	3.80E+09	1.56E+09	6.41E+08	4.43E+07	5.16E+05	7.01E+01	1.76E-10	8.11E-30	0.0	0.0	0.0
PR144M	4.70E+07	1.87E+07	7.69E+06	5.32E+05	6.20E+03	8.41E-01	2.11E-12	9.74E-32	0.0	0.0	0.0
ND144	2.00E-06	2.83E-06	3.17E-06	3.39E-06	3.41E-06	3.41E-06	3.41E-06	3.41E-06	3.41E-06	3.41E-06	3.41E-06
PM147	1.40E+09	1.08E+09	8.26E+08	3.74E+08	9.98E+07	7.11E+06	2.57E+03	4.73E-03	1.59E-14	0.0	0.0
SM147	4.00E-02	4.80E-02	5.41E-02	6.52E-02	7.19E-02	7.42E-02	7.44E-02	7.44E-02	7.44E-02	7.44E-02	7.44E-02
SM148	1.00E-24	1.00E-24	1.19E-24	1.85E-24	3.55E-24	8.22E-24	2.65E-23	6.14E-23	1.33E-22	3.46E-22	7.02E-22
EU152	1.80E+05	1.71E+05	1.63E+05	1.40E+05	1.08E+05	6.50E+04	1.41E+04	1.10E+03	6.76E+00	1.55E-06	1.34E-17
EU154	3.00E+08	2.77E+08	2.55E+08	2.01E+08	1.34E+08	5.99E+07	5.34E+06	9.50E+04	3.01E+01	9.55E-10	3.04E-27
EU155	1.20E+08	1.04E+08	9.08E+07	5.97E+07	2.97E+07	7.34E+06	1.11E+05	1.02E+02	8.75E-05	5.44E-23	0.0
GD152	1.90E-09	2.21E-09	2.51E-09	3.32E-09	4.42E-09	5.94E-09	7.72E-09	8.18E-09	8.22E-09	8.22E-09	8.22E-09
TOTAL	1.07E+12	1.01E+12	9.64E+11	8.72E+11	7.64E+11	6.04E+11	3.01E+11	9.44E+10	9.35E+09	6.12E+07	5.22E+07

FISSION PRODUCTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 16/4

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	1.83E-08	1.73E-08	1.63E-08	1.38E-08	1.04E-08	5.95E-09	1.10E-09	6.68E-11	2.44E-13	1.19E-20	7.77E-33
SR 90	1.91E-03	1.87E-03	1.83E-03	1.70E-03	1.51E-03	1.19E-03	5.82E-04	1.77E-04	1.64E-05	1.30E-08	8.86E-14
Y 90	9.14E-03	8.93E-03	8.72E-03	8.12E-03	7.21E-03	5.68E-03	2.78E-03	8.47E-04	7.84E-05	6.22E-08	4.23E-13
ZR 93	1.85E-10	1.85E-10	1.85E-10	1.85E-10	1.85E-10	1.85E-10	1.85E-10	1.85E-10	1.85E-10	1.85E-10	1.85E-10
NB 93M	7.67E-11	8.62E-11	9.53E-11	1.20E-10	1.53E-10	1.99E-10	2.54E-10	2.67E-10	2.69E-10	2.69E-10	2.68E-10
NB 94	2.12E-08	2.12E-08	2.12E-08	2.12E-08	2.12E-08	2.12E-08	2.12E-08	2.11E-08	2.11E-08	2.09E-08	2.05E-08
NB 95	4.93E-12	3.68E-15	2.74E-18	1.14E-27	2.63E-43	0.0	0.0	0.0	0.0	0.0	0.0
TC 99	6.64E-07	6.64E-07	6.64E-07	6.64E-07	6.64E-07	6.64E-07	6.64E-07	6.64E-07	6.64E-07	6.63E-07	6.62E-07
RU106	3.37E-07	1.69E-07	8.51E-08	1.08E-08	3.48E-10	3.59E-13	3.97E-22	4.68E-37	0.0	0.0	0.0
RH106	5.45E-05	2.74E-05	1.38E-05	1.75E-06	5.63E-08	5.82E-11	6.42E-11	7.57E-35	0.0	0.0	0.0
PD107	7.85E-13	7.85E-13	7.85E-13	7.85E-13	7.85E-13	7.85E-13	7.85E-13	7.85E-13	7.85E-13	7.85E-13	7.85E-13
AG108	0.0	2.05E-11	2.04E-11	2.01E-11	1.95E-11	1.85E-11	1.57E-11	1.20E-11	6.93E-12	1.35E-12	8.80E-14
AG108M	6.05E-10	6.02E-10	5.98E-10	5.89E-10	5.73E-10	5.42E-10	4.60E-10	3.51E-10	2.03E-10	3.95E-11	2.58E-12
AG110	2.72E-09	3.66E-06	1.33E-06	6.36E-08	4.02E-10	1.60E-14	1.02E-27	0.0	0.0	0.0	0.0
AG110M	1.76E-03	6.39E-04	2.32E-04	1.11E-05	7.03E-08	2.80E-12	1.78E-25	0.0	0.0	0.0	0.0
SN126	8.77E-09	8.77E-09	8.77E-09	8.77E-09	8.77E-09	8.77E-09	8.76E-09	8.76E-09	8.76E-09	8.74E-09	8.71E-09
SB125	6.42E-04	5.00E-04	3.89E-04	1.83E-04	5.22E-05	4.24E-06	2.27E-09	8.03E-15	1.00E-25	0.0	0.0
SB126	1.05E-08	1.82E-08	1.82E-08	1.82E-08	1.82E-08	1.82E-08	1.82E-08	1.82E-08	1.82E-08	1.81E-08	1.81E-08
SB126M	5.16E-08	8.95E-08	8.95E-08	8.95E-08	8.95E-08	8.95E-08	8.95E-08	8.94E-08	8.94E-08	8.92E-08	8.89E-08
TE125M	1.57E-04	3.43E-05	2.55E-05	1.20E-05	3.42E-06	2.78E-07	1.49E-10	5.27E-16	6.59E-27	0.0	0.0
I 129	5.88E-09	5.88E-09	5.88E-09	5.88E-09	5.88E-09	5.88E-09	5.88E-09	5.88E-09	5.88E-09	5.88E-09	5.88E-09
CS134	2.15E-02	1.53E-02	1.10E-02	4.00E-03	7.45E-04	2.59E-05	1.08E-09	5.44E-17	1.38E-31	0.0	0.0
CS135	1.89E-08	1.89E-08	1.89E-08	1.89E-08	1.89E-08	1.89E-08	1.89E-08	1.89E-08	1.89E-08	1.89E-08	1.89E-08
CS137	1.29E-02	1.26E-02	1.23E-02	1.15E-02	1.02E-02	8.10E-03	4.05E-03	1.28E-03	1.27E-04	1.24E-07	1.19E-12
BA137M	4.35E-02	4.22E-02	4.12E-02	3.85E-02	3.43E-02	2.72E-02	1.36E-02	4.29E-03	4.25E-04	4.16E-07	4.01E-12
CE144	6.82E-05	2.80E-05	1.15E-05	7.94E-07	9.26E-09	1.26E-12	3.15E-24	1.45E-43	0.0	0.0	0.0
PR144	7.55E-04	3.10E-04	1.27E-04	8.80E-06	1.03E-07	1.39E-11	3.49E-23	1.61E-42	0.0	0.0	0.0
PR144M	4.35E-07	1.73E-07	7.11E-08	4.91E-09	5.73E-11	7.78E-15	1.95E-26	9.00E-46	0.0	0.0	0.0
PM147	1.36E-05	1.04E-05	8.00E-06	3.62E-06	9.67E-07	6.89E-08	2.49E-11	4.58E-17	1.55E-28	0.0	0.0
SM147	1.48E-14	1.78E-14	2.00E-14	2.41E-14	2.66E-14	2.75E-14	2.75E-14	2.75E-14	2.75E-14	2.75E-14	2.75E-14
SM148	3.23E-37	3.23E-37	3.85E-37	5.95E-37	1.15E-36	2.65E-36	8.55E-36	1.98E-35	4.28E-35	1.12E-34	2.27E-34
EU152	3.69E-08	3.51E-08	3.33E-08	2.86E-08	2.22E-08	1.33E-08	2.89E-09	2.26E-10	1.38E-12	3.18E-19	2.75E-30
EU154	7.26E-05	6.69E-05	6.18E-05	4.85E-05	3.24E-05	1.45E-05	1.29E-06	2.30E-08	7.27E-12	2.31E-22	7.35E-40
EU155	2.36E-06	2.05E-06	1.78E-06	1.17E-06	5.83E-07	1.44E-07	2.18E-09	2.01E-12	1.72E-18	1.07E-36	0.0
GD152	6.69E-22	7.80E-22	8.85E-22	1.17E-21	1.56E-21	2.09E-21	2.72E-21	2.88E-21	2.89E-21	2.89E-21	2.89E-21
TOTAL	9.24E-02	8.25E-02	7.59E-02	6.40E-02	5.40E-02	4.22E-02	2.10E-02	6.59E-03	6.48E-04	1.44E-06	8.24E-07

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

	RADIOACTIVITY ,BECQUEREL										
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	2.99E+12	2.54E+12	2.20E+12	1.55E+12	1.06E+12	7.17E+11	3.62E+11	1.37E+11	3.01E+10	3.68E+09	1.67E+09
	THERMAL POWER ,WATTS										
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	3.25E-01	2.81E-01	2.45E-01	1.72E-01	1.07E-01	5.64E-02	2.21E-02	7.23E-03	1.05E-03	2.07E-04	1.78E-04

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP II, 16/6

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	5.10E+02	5.10E+02	5.10E+02	5.10E+02	5.10E+02	5.09E+02	5.07E+02	5.04E+02	4.98E+02	4.80E+02	4.52E+02
CA 41	6.10E+05	6.10E+05	6.10E+05	6.10E+05	6.10E+05	6.10E+05	6.10E+05	6.10E+05	6.09E+05	6.08E+05	6.05E+05
CA 45	3.80E+06	8.04E+05	1.70E+05	1.61E+03	6.83E-01	1.23E-07	7.13E-28	0.0	0.0	0.0	0.0
SC 46	7.40E+03	3.61E+02	1.76E+01	2.04E-03	5.64E-10	4.30E-23	0.0	0.0	0.0	0.0	0.0
MN 54	1.10E+09	4.90E+08	2.18E+08	1.92E+07	3.34E+05	1.01E+02	2.84E-09	7.34E-27	0.0	0.0	0.0
FE 55	5.50E+10	4.21E+10	3.23E+10	1.45E+10	3.83E+09	2.66E+08	8.97E+04	1.46E-01	3.89E-13	0.0	0.0
FE 59	3.60E+05	1.30E+03	4.69E+00	2.20E-07	1.34E-19	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	1.30E+01	3.64E-01	1.02E-02	2.23E-07	3.82E-15	1.12E-30	0.0	0.0	0.0	0.0	0.0
CO 60	1.90E+12	1.67E+12	1.46E+12	9.85E+11	5.10E+11	1.37E+11	2.65E+09	3.70E+06	7.19E+00	5.29E-17	0.0
NI 59	1.30E+05	1.30E+05	1.30E+05	1.30E+05	1.30E+05	1.30E+05	1.30E+05	1.30E+05	1.30E+05	1.29E+05	1.29E+05
NI 63	3.50E+11	3.48E+11	3.45E+11	3.37E+11	3.25E+11	3.01E+11	2.40E+11	1.65E+11	7.76E+10	8.10E+09	1.87E+08
ZN 65	2.10E+07	7.44E+06	2.64E+06	1.17E+05	6.53E+02	2.03E-02	6.09E-16	0.0	0.0	0.0	0.0
TOTAL	2.31E+12	2.06E+12	1.84E+12	1.34E+12	8.39E+11	4.38E+11	2.43E+11	1.65E+11	7.76E+10	8.10E+09	1.88E+08

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 16/6

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	4.05E-12	4.05E-12	4.05E-12	4.04E-12	4.04E-12	4.04E-12	4.02E-12	4.00E-12	3.95E-12	3.81E-12	3.59E-12
CA 41	4.17E-08	4.17E-08	4.17E-08	4.17E-08	4.17E-08	4.17E-08	4.17E-08	4.17E-08	4.17E-08	4.16E-08	4.14E-08
CA 45	4.70E-08	9.95E-09	2.10E-09	1.99E-11	8.45E-15	1.52E-21	8.82E-42	0.0	0.0	0.0	0.0
SC 46	2.52E-09	1.23E-10	5.99E-12	6.95E-16	1.92E-22	1.46E-35	0.0	0.0	0.0	0.0	0.0
MN 54	1.48E-04	6.59E-05	2.93E-05	2.58E-06	4.50E-08	1.37E-11	3.82E-22	9.87E-40	0.0	0.0	0.0
FE 55	2.05E-03	1.57E-03	1.20E-03	5.39E-04	1.42E-04	9.90E-06	3.33E-09	5.43E-15	1.44E-26	0.0	0.0
FE 59	9.08E-08	3.27E-10	1.18E-12	5.55E-20	3.39E-32	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	2.10E-12	5.89E-14	1.65E-15	3.61E-20	6.19E-28	1.82E-43	0.0	0.0	0.0	0.0	0.0
CO 60	7.92E-01	6.94E-01	6.09E-01	4.10E-01	2.13E-01	5.71E-02	1.10E-03	1.54E-06	3.00E-12	2.20E-29	0.0
NI 59	2.24E-08	2.24E-08	2.24E-08	2.24E-08	2.24E-08	2.24E-08	2.24E-08	2.24E-08	2.23E-08	2.23E-08	2.22E-08
NI 63	3.76E-03	3.73E-03	3.70E-03	3.62E-03	3.49E-03	3.23E-03	2.58E-03	1.77E-03	8.33E-04	8.70E-05	2.01E-06
ZN 65	1.99E-06	7.05E-07	2.50E-07	1.11E-08	6.18E-11	1.92E-15	5.76E-29	0.0	0.0	0.0	0.0
TOTAL	7.98E-01	7.00E-01	6.14E-01	4.15E-01	2.16E-01	6.03E-02	3.68E-03	1.77E-03	8.33E-04	8.70E-05	2.08E-06

ACTINIDES

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP II, 16/6

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	1.00E+00	1.16E+00	1.34E+00	2.00E+00	3.43E+00	7.33E+00	2.43E+01	6.02E+01	1.38E+02	3.98E+02	7.96E+02
TL208	1.20E-08	1.46E-08	1.79E-08	3.19E-08	6.94E-08	2.15E-07	1.51E-06	6.06E-06	2.69E-05	1.59E-04	6.17E-04
TL209	4.60E-06	5.85E-06	7.33E-06	1.35E-05	3.16E-05	1.14E-04	1.17E-03	8.93E-03	7.16E-02	1.05E+00	7.14E+00
PB209	2.10E-04	2.66E-04	3.33E-04	6.15E-04	1.44E-03	5.20E-03	5.33E-02	4.06E-01	3.25E+00	4.76E+01	3.25E+02
PB210	7.10E-03	9.31E-03	1.20E-02	2.38E-02	6.17E-02	2.62E-01	3.42E+00	2.95E+01	2.41E+02	3.35E+03	1.55E+04
PB211	1.00E+00	1.17E+00	1.35E+00	2.01E+00	3.44E+00	7.35E+00	2.44E+01	6.04E+01	1.38E+02	4.00E+02	7.98E+02
PB212	3.30E-08	4.07E-08	4.99E-08	8.88E-08	1.93E-07	5.99E-07	4.20E-06	1.69E-05	7.49E-05	4.43E-04	1.72E-03
PB214	7.10E-02	8.79E-02	1.08E-01	1.86E-01	4.03E-01	1.30E+00	1.01E+01	5.91E+01	3.55E+02	3.35E+03	1.55E+04
BI210	7.10E-03	9.31E-03	1.20E-02	2.38E-02	6.17E-02	2.62E-01	3.42E+00	2.95E+01	2.41E+02	3.35E+03	1.55E+04
BI211	1.00E+00	1.17E+00	1.35E+00	2.01E+00	3.44E+00	7.35E+00	2.44E+01	6.04E+01	1.38E+02	4.00E+02	7.98E+02
BI212	3.30E-08	4.07E-08	4.99E-08	8.88E-08	1.93E-07	5.99E-07	4.20E-06	1.69E-05	7.49E-05	4.43E-04	1.72E-03
BI213	2.10E-04	2.66E-04	3.33E-04	6.15E-04	1.44E-03	5.20E-03	5.33E-02	4.06E-01	3.25E+00	4.76E+01	3.25E+02
BI214	7.10E-02	8.79E-02	1.08E-01	1.86E-01	4.03E-01	1.30E+00	1.01E+01	5.91E+01	3.55E+02	3.35E+03	1.55E+04
PO210	7.10E-03	8.18E-03	1.04E-02	2.12E-02	6.17E-02	2.62E-01	3.42E+00	2.95E+01	2.41E+02	3.35E+03	1.55E+04
PO211	3.00E-03	3.50E-03	4.04E-03	6.02E-03	1.03E-02	2.20E-02	7.32E-02	1.81E-01	4.14E-01	1.20E+00	2.39E+00
PO212	2.10E-08	2.61E-08	3.20E-08	5.69E-08	1.24E-07	3.84E-07	2.69E-06	1.08E-05	4.80E-05	2.84E-04	1.10E-03
PO213	2.10E-04	2.60E-04	3.26E-04	6.01E-04	1.40E-03	5.09E-03	5.21E-02	3.97E-01	3.18E+00	4.65E+01	3.17E+02
PO214	7.10E-02	8.79E-02	1.08E-01	1.86E-01	4.03E-01	1.30E+00	1.01E+01	5.91E+01	3.55E+02	3.35E+03	1.55E+04
PO215	1.00E+00	1.17E+00	1.35E+00	2.01E+00	3.44E+00	7.35E+00	2.44E+01	6.04E+01	1.38E+02	4.00E+02	7.98E+02
PO216	3.30E-08	4.07E-08	4.99E-08	8.88E-08	1.93E-07	5.99E-07	4.20E-06	1.69E-05	7.49E-05	4.43E-04	1.72E-03
PO218	7.10E-02	8.79E-02	1.08E-01	1.86E-01	4.03E-01	1.30E+00	1.01E+01	5.91E+01	3.55E+02	3.35E+03	1.55E+04
AT217	2.10E-04	2.66E-04	3.33E-04	6.15E-04	1.44E-03	5.20E-03	5.33E-02	4.06E-01	3.25E+00	4.76E+01	3.25E+02
RN219	1.00E+00	1.17E+00	1.35E+00	2.01E+00	3.44E+00	7.35E+00	2.44E+01	6.04E+01	1.38E+02	4.00E+02	7.98E+02
RN220	3.30E-08	4.07E-08	4.99E-08	8.88E-08	1.93E-07	5.99E-07	4.20E-06	1.69E-05	7.49E-05	4.43E-04	1.72E-03
RN222	7.10E-02	8.79E-02	1.08E-01	1.86E-01	4.03E-01	1.30E+00	1.01E+01	5.91E+01	3.55E+02	3.35E+03	1.55E+04
FR221	2.10E-04	2.66E-04	3.33E-04	6.15E-04	1.44E-03	5.20E-03	5.33E-02	4.06E-01	3.25E+00	4.76E+01	3.25E+02
FR223	1.40E-02	1.63E-02	1.88E-02	2.81E-02	4.81E-02	1.03E-01	3.42E-01	8.45E-01	1.93E+00	5.60E+00	1.12E+01
RA223	1.00E+00	1.17E+00	1.35E+00	2.01E+00	3.44E+00	7.35E+00	2.44E+01	6.04E+01	1.38E+02	4.00E+02	7.98E+02
RA224	3.30E-08	4.07E-08	4.99E-08	8.88E-08	1.93E-07	5.99E-07	4.20E-06	1.69E-05	7.49E-05	4.43E-04	1.72E-03
RA225	2.10E-04	2.66E-04	3.33E-04	6.15E-04	1.44E-03	5.20E-03	5.33E-02	4.06E-01	3.25E+00	4.76E+01	3.25E+02
RA226	7.10E-02	8.79E-02	1.08E-01	1.86E-01	4.03E-01	1.30E+00	1.01E+01	5.91E+01	3.55E+02	3.35E+03	1.55E+04
RA228	5.40E-08	6.58E-08	7.92E-08	1.32E-07	2.67E-07	7.52E-07	4.20E-06	1.69E-05	7.49E-05	4.43E-04	1.72E-03
AC225	2.10E-04	2.66E-04	3.33E-04	6.15E-04	1.44E-03	5.20E-03	5.33E-02	4.06E-01	3.25E+00	4.76E+01	3.25E+02
AC227	1.00E+00	1.16E+00	1.35E+00	2.00E+00	3.44E+00	7.34E+00	2.44E+01	6.04E+01	1.38E+02	4.00E+02	7.98E+02
AC228	5.40E-08	6.58E-08	7.92E-08	1.32E-07	2.67E-07	7.52E-07	4.20E-06	1.69E-05	7.49E-05	4.43E-04	1.72E-03
TH227	1.00E+00	1.15E+00	1.33E+00	1.98E+00	3.39E+00	7.25E+00	2.41E+01	5.95E+01	1.36E+02	3.94E+02	7.87E+02
TH228	3.30E-08	4.06E-08	4.97E-08	8.87E-08	1.93E-07	5.99E-07	4.20E-06	1.69E-05	7.49E-05	4.43E-04	1.72E-03
TH229	2.10E-04	2.66E-04	3.33E-04	6.15E-04	1.44E-03	5.20E-03	5.33E-02	4.06E-01	3.25E+00	4.76E+01	3.25E+02
TH230	3.60E+01	4.21E+01	4.89E+01	7.38E+01	1.30E+02	2.95E+02	1.16E+03	3.59E+03	1.08E+04	3.93E+04	9.01E+04
TH231	3.70E+04	3.70E+04	3.70E+04	3.70E+04	3.70E+04	3.70E+04	3.71E+04	3.72E+04	3.73E+04	3.78E+04	3.87E+04
TH232	1.60E-07	1.87E-07	2.18E-07	3.32E-07	5.92E-07	1.37E-06	5.82E-06	2.02E-05	7.49E-05	4.43E-04	1.72E-03
TH234	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07
PA231	5.80E+00	6.59E+00	7.37E+00	9.73E+00	1.36E+01	2.15E+01	4.50E+01	8.42E+01	1.63E+02	4.00E+02	7.98E+02
PA233	2.20E+04	2.52E+04	2.85E+04	3.94E+04	6.04E+04	1.10E+05	2.89E+05	6.00E+05	1.16E+06	2.40E+06	3.51E+06
PA234M	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07
PA234	2.00E+04	1.95E+04	1.95E+04	1.95E+04	1.95E+04	1.95E+04	1.95E+04	1.95E+04	1.95E+04	1.95E+04	1.95E+04
U 233	5.30E-01	6.44E-01	7.72E-01	1.23E+00	2.31E+00	6.00E+00	3.18E+01	1.29E+02	5.18E+02	2.92E+03	9.53E+03
U 234	6.30E+05	7.15E+05	7.99E+05	1.05E+06	1.45E+06	2.20E+06	4.15E+06	6.51E+06	9.19E+06	1.12E+07	1.14E+07
U 235	3.70E+04	3.70E+04	3.70E+04	3.70E+04	3.70E+04	3.70E+04	3.71E+04	3.72E+04	3.73E+04	3.78E+04	3.87E+04

U 236	5.20E+02	5.91E+02	6.62E+02	8.75E+02	1.23E+03	1.94E+03	4.06E+03	7.59E+03	1.46E+04	3.51E+04	6.79E+04
U 237	4.70E+06	8.83E+06	8.42E+06	7.28E+06	5.73E+06	3.54E+06	8.35E+05	7.53E+04	6.12E+02	3.28E-04	1.16E-14
U 238	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07
NP237	2.20E+04	2.51E+04	2.85E+04	3.94E+04	6.04E+04	1.10E+05	2.89E+05	6.00E+05	1.16E+06	2.40E+06	3.51E+06
PU238	3.00E+10	2.98E+10	2.95E+10	2.89E+10	2.77E+10	2.56E+10	2.02E+10	1.36E+10	6.18E+09	5.79E+08	1.12E+07
PU239	1.70E+09	1.70E+09	1.70E+09	1.70E+09	1.70E+09	1.70E+09	1.70E+09	1.70E+09	1.69E+09	1.68E+09	1.65E+09
PU240	2.40E+09	2.40E+09	2.40E+09	2.40E+09	2.40E+09	2.40E+09	2.39E+09	2.38E+09	2.35E+09	2.28E+09	2.16E+09
PU241	3.70E+11	3.53E+11	3.36E+11	2.91E+11	2.29E+11	1.41E+11	3.34E+10	3.01E+09	2.44E+07	1.31E+01	4.65E-10
PU242	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07	1.50E+07
AM241	9.40E+09	9.97E+09	1.05E+10	1.20E+10	1.39E+10	1.66E+10	1.93E+10	1.88E+10	1.61E+10	9.94E+09	4.46E+09
AM244	1.80E+10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CM242	2.30E+04	4.88E+03	1.03E+03	9.86E+00	4.23E-03	7.77E-10	4.82E-30	0.0	0.0	0.0	0.0
CM244	6.60E+06	7.46E+06	7.18E+06	6.40E+06	5.28E+06	3.60E+06	1.14E+06	1.69E+05	3.68E+03	3.80E-02	1.86E-10
TOTAL	4.32E+11	3.97E+11	3.80E+11	3.36E+11	2.75E+11	1.88E+11	7.70E+10	3.95E+10	2.64E+10	1.45E+10	8.36E+09

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 16/6

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	7.94E-14	9.22E-14	1.07E-13	1.59E-13	2.72E-13	5.82E-13	1.93E-12	4.78E-12	1.09E-11	3.16E-11	6.31E-11
TL208	7.64E-21	9.30E-21	1.14E-20	2.03E-20	4.41E-20	1.37E-19	9.60E-19	3.86E-18	1.71E-17	1.01E-16	3.92E-16
TL209	2.07E-18	2.63E-18	3.29E-18	6.08E-18	1.42E-17	5.14E-17	5.26E-16	4.01E-15	3.21E-14	4.70E-13	3.21E-12
PB209	6.53E-18	8.26E-18	1.04E-17	1.91E-17	4.46E-17	1.62E-16	1.66E-15	1.26E-14	1.01E-13	1.48E-12	1.01E-11
PB210	4.45E-17	5.83E-17	7.52E-17	1.49E-16	3.86E-16	1.64E-15	2.14E-14	1.85E-13	1.51E-12	2.10E-11	9.68E-11
FB211	8.10E-14	9.44E-14	1.09E-13	1.62E-13	2.79E-13	5.95E-13	1.98E-12	4.89E-12	1.12E-11	3.24E-11	6.46E-11
PB212	1.70E-21	2.10E-21	2.57E-21	4.57E-21	9.95E-21	3.08E-20	2.16E-19	8.69E-19	3.85E-18	2.28E-17	8.84E-17
PB214	6.12E-15	7.57E-15	9.27E-15	1.61E-14	3.48E-14	1.12E-13	8.73E-13	5.09E-12	3.06E-11	2.89E-10	1.33E-09
BI210	4.43E-16	5.80E-16	7.48E-16	1.48E-15	3.85E-15	1.63E-14	2.13E-13	1.84E-12	1.50E-11	2.09E-10	9.63E-10
BI211	1.08E-12	1.26E-12	1.45E-12	2.16E-12	3.71E-12	7.92E-12	2.63E-11	6.51E-11	1.49E-10	4.31E-10	8.60E-10
BI212	1.52E-20	1.87E-20	2.29E-20	4.08E-20	8.89E-20	2.75E-19	1.93E-18	7.77E-18	3.44E-17	2.04E-16	7.90E-16
BI213	2.39E-17	3.02E-17	3.78E-17	6.99E-17	1.63E-16	5.91E-16	6.05E-15	4.61E-14	3.70E-13	5.41E-12	3.69E-11
BI214	2.46E-14	3.04E-14	3.72E-14	6.45E-14	1.40E-13	4.49E-13	3.51E-12	2.05E-11	1.23E-10	1.16E-09	5.35E-09
PO210	6.15E-15	7.09E-15	9.04E-15	1.83E-14	5.35E-14	2.27E-13	2.96E-12	2.56E-11	2.09E-10	2.90E-09	1.34E-08
PO211	3.65E-15	4.25E-15	4.92E-15	7.32E-15	1.26E-14	2.68E-14	8.91E-14	2.20E-13	5.04E-13	1.46E-12	2.91E-12
PO212	3.01E-20	3.75E-20	4.59E-20	8.16E-20	1.78E-19	5.51E-19	3.87E-18	1.55E-17	6.89E-17	4.08E-16	1.58E-15
PO213	2.87E-16	3.56E-16	4.46E-16	8.23E-16	1.92E-15	6.95E-15	7.13E-14	5.43E-13	4.35E-12	6.36E-11	4.34E-10
PO214	8.91E-14	1.10E-13	1.35E-13	2.34E-13	5.06E-13	1.63E-12	1.27E-11	7.41E-11	4.45E-10	4.20E-09	1.94E-08
PO215	1.21E-12	1.41E-12	1.63E-12	2.42E-12	4.15E-12	8.86E-12	2.94E-11	7.28E-11	1.67E-10	4.82E-10	9.62E-10
PO216	3.53E-20	4.36E-20	5.33E-20	9.50E-20	2.07E-19	6.41E-19	4.50E-18	1.81E-17	8.01E-17	4.74E-16	1.84E-15
PO218	6.96E-14	8.61E-14	1.05E-13	1.82E-13	3.95E-13	1.27E-12	9.92E-12	5.79E-11	3.47E-10	3.28E-09	1.51E-08
AT217	2.42E-16	3.07E-16	3.84E-16	7.09E-16	1.66E-15	6.00E-15	6.15E-14	4.68E-13	3.75E-12	5.49E-11	3.74E-10
RN219	1.11E-12	1.30E-12	1.50E-12	2.23E-12	3.83E-12	8.18E-12	2.72E-11	6.72E-11	1.54E-10	4.45E-10	8.88E-10
RN220	3.39E-20	4.18E-20	5.12E-20	9.11E-20	1.98E-19	6.14E-19	4.31E-18	1.73E-17	7.69E-17	4.55E-16	1.76E-15
RN222	6.36E-14	7.87E-14	9.63E-14	1.67E-13	3.61E-13	1.16E-12	9.08E-12	5.29E-11	3.18E-10	3.00E-09	1.38E-08
FR221	2.17E-16	2.75E-16	3.45E-16	6.36E-16	1.49E-15	5.38E-15	5.51E-14	4.20E-13	3.37E-12	4.92E-11	3.36E-10
FR223	9.83E-16	1.14E-15	1.32E-15	1.97E-15	3.38E-15	7.22E-15	2.40E-14	5.93E-14	1.36E-13	3.93E-13	7.84E-13
RA223	9.58E-13	1.12E-12	1.29E-12	1.92E-12	3.29E-12	7.04E-12	2.34E-11	5.78E-11	1.32E-10	3.83E-10	7.64E-10
RA224	3.06E-20	3.78E-20	4.62E-20	8.23E-20	1.79E-19	5.55E-19	3.90E-18	1.57E-17	6.95E-17	4.11E-16	1.59E-15
RA225	3.98E-18	5.04E-18	6.31E-18	1.17E-17	2.72E-17	9.85E-17	1.01E-15	7.69E-15	6.16E-14	9.02E-13	6.15E-12
RA226	5.54E-14	6.86E-14	8.39E-14	1.45E-13	3.15E-13	1.01E-12	7.91E-12	4.61E-11	2.77E-10	2.61E-09	1.21E-08
RA228	1.13E-22	1.37E-22	1.65E-22	2.74E-22	5.55E-22	1.57E-21	8.75E-21	3.52E-20	1.56E-19	9.24E-19	3.58E-18
AC225	2.00E-16	2.53E-16	3.17E-16	5.85E-16	1.37E-15	4.94E-15	5.07E-14	3.86E-13	3.09E-12	4.52E-11	3.09E-10
AC227	1.31E-14	1.52E-14	1.76E-14	2.62E-14	4.50E-14	9.61E-14	3.19E-13	7.90E-13	1.81E-12	5.23E-12	1.04E-11
AC228	1.26E-20	1.54E-20	1.85E-20	3.08E-20	6.23E-20	1.76E-19	9.82E-19	3.95E-18	1.75E-17	1.04E-16	4.01E-16
TH227	9.85E-13	1.13E-12	1.31E-12	1.95E-12	3.34E-12	7.14E-12	2.37E-11	5.86E-11	1.34E-10	3.88E-10	7.75E-10
TH228	2.92E-20	3.59E-20	4.40E-20	7.84E-20	1.71E-19	5.30E-19	3.72E-18	1.49E-17	6.62E-17	3.92E-16	1.52E-15
TH229	1.74E-16	2.20E-16	2.76E-16	5.09E-16	1.19E-15	4.31E-15	4.41E-14	3.36E-13	2.69E-12	3.94E-11	2.69E-10
TH230	2.75E-11	3.22E-11	3.74E-11	5.64E-11	9.94E-11	2.25E-10	8.88E-10	2.75E-09	8.26E-09	3.00E-08	6.89E-08
TH231	5.62E-10	5.62E-10	5.62E-10	5.62E-10	5.62E-10	5.62E-10	5.63E-10	5.64E-10	5.67E-10	5.74E-10	5.87E-10
TH232	1.05E-19	1.23E-19	1.43E-19	2.17E-19	3.87E-19	8.98E-19	3.80E-18	1.32E-17	4.90E-17	2.90E-16	1.12E-15
TH234	1.64E-07	1.64E-07	1.64E-07	1.64E-07	1.64E-07	1.64E-07	1.64E-07	1.64E-07	1.64E-07	1.64E-07	1.64E-07
PA231	4.79E-12	5.43E-12	6.08E-12	8.02E-12	1.13E-11	1.77E-11	3.71E-11	6.94E-11	1.34E-10	3.30E-10	6.58E-10
PA233	1.35E-09	1.54E-09	1.75E-09	2.42E-09	3.71E-09	6.76E-09	1.77E-08	3.68E-08	7.14E-08	1.47E-07	2.15E-07
PA234M	2.00E-06	2.00E-06	2.00E-06	2.00E-06	2.00E-06	2.00E-06	2.00E-06	2.00E-06	2.00E-06	2.00E-06	2.00E-06
PA234	7.77E-09	7.57E-09	7.57E-09	7.57E-09	7.57E-09	7.57E-09	7.57E-09	7.57E-09	7.57E-09	7.57E-09	7.57E-09
U 233	4.17E-13	5.06E-13	6.07E-13	9.67E-13	1.82E-12	4.72E-12	2.50E-11	1.02E-10	4.07E-10	2.30E-09	7.50E-09
U 234	4.90E-07	5.56E-07	6.22E-07	8.15E-07	1.13E-06	1.72E-06	3.23E-06	5.07E-06	7.15E-06	8.71E-06	8.88E-06
U 235	2.77E-08	2.77E-08	2.77E-08	2.78E-08	2.78E-08	2.78E-08	2.78E-08	2.79E-08	2.80E-08	2.84E-08	2.90E-08

U 236	3.81E-10	4.33E-10	4.85E-10	6.41E-10	9.01E-10	1.42E-09	2.98E-09	5.56E-09	1.07E-08	2.57E-08	4.97E-08
U 237	2.40E-07	4.52E-07	4.30E-07	3.72E-07	2.93E-07	1.81E-07	4.27E-08	3.85E-09	3.13E-11	1.68E-17	5.95E-28
U 238	1.03E-05	1.03E-05	1.03E-05	1.03E-05	1.03E-05	1.03E-05	1.03E-05	1.03E-05	1.03E-05	1.03E-05	1.03E-05
NP237	1.75E-08	2.00E-08	2.26E-08	3.13E-08	4.80E-08	8.75E-08	2.29E-07	4.76E-07	9.24E-07	1.91E-06	2.79E-06
PU238	2.69E-02	2.67E-02	2.65E-02	2.59E-02	2.49E-02	2.30E-02	1.81E-02	1.22E-02	5.54E-03	5.18E-04	9.99E-06
PU239	1.43E-03	1.43E-03	1.43E-03	1.43E-03	1.43E-03	1.43E-03	1.43E-03	1.42E-03	1.42E-03	1.41E-03	1.39E-03
PU240	2.02E-03	2.02E-03	2.02E-03	2.02E-03	2.02E-03	2.02E-03	2.01E-03	2.00E-03	1.98E-03	1.92E-03	1.82E-03
PU241	3.08E-04	2.94E-04	2.80E-04	2.42E-04	1.91E-04	1.18E-04	2.78E-05	2.51E-06	2.04E-08	1.09E-14	3.87E-25
PU242	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05
AM241	8.49E-03	9.00E-03	9.49E-03	1.08E-02	1.26E-02	1.50E-02	1.74E-02	1.70E-02	1.45E-02	8.98E-03	4.03E-03
AM244	2.55E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CM242	2.29E-08	4.86E-09	1.03E-09	9.82E-12	4.21E-15	7.73E-22	4.80E-42	0.0	0.0	0.0	0.0
CM244	6.24E-06	7.05E-06	6.79E-06	6.05E-06	5.00E-06	3.41E-06	1.08E-06	1.60E-07	3.48E-09	3.59E-14	1.76E-22
TOTAL	4.17E-02	3.95E-02	3.97E-02	4.04E-02	4.11E-02	4.15E-02	3.90E-02	3.26E-02	2.35E-02	1.29E-02	7.28E-03

FISSION PRODUCTS

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = GUSSBH. TYP II, 16/6

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
SR 90	3.80E+11	3.71E+11	3.62E+11	3.38E+11	3.00E+11	2.36E+11	1.16E+11	3.52E+10	3.26E+09	2.59E+06	1.76E+01
Y 90	3.80E+11	3.71E+11	3.63E+11	3.38E+11	3.00E+11	2.36E+11	1.16E+11	3.52E+10	3.26E+09	2.59E+06	1.76E+01
RU106	5.50E+10	2.77E+10	1.39E+10	1.77E+09	5.69E+07	5.88E+04	6.49E-05	7.65E-20	0.0	0.0	0.0
RH106	5.50E+10	2.77E+10	1.39E+10	1.77E+09	5.69E+07	5.88E+04	6.49E-05	7.65E-20	0.0	0.0	0.0
SB125	8.50E+09	6.62E+09	5.15E+09	2.42E+09	6.91E+08	5.61E+07	3.01E+04	1.06E-01	1.33E-12	0.0	0.0
TE125M	3.20E+09	1.63E+09	1.26E+09	5.91E+08	1.69E+08	1.37E+07	7.34E+03	2.60E-02	3.25E-13	0.0	0.0
CS134	1.80E+11	1.29E+11	9.19E+10	3.35E+10	6.25E+09	2.17E+08	9.07E+03	4.57E-04	1.16E-18	0.0	0.0
CS137	5.80E+11	5.67E+11	5.54E+11	5.17E+11	4.61E+11	3.66E+11	1.83E+11	5.76E+10	5.72E+09	5.59E+06	5.39E+01
BA137M	5.40E+11	5.36E+11	5.24E+11	4.89E+11	4.36E+11	3.46E+11	1.73E+11	5.45E+10	5.41E+09	5.29E+06	5.10E+01
CE144	3.40E+10	1.40E+10	5.73E+09	3.96E+08	4.62E+06	6.27E+02	1.57E-09	7.26E-29	0.0	0.0	0.0
PR144	3.40E+10	1.40E+10	5.73E+09	3.96E+08	4.62E+06	6.27E+02	1.57E-09	7.26E-29	0.0	0.0	0.0
PR144M	4.00E+08	1.68E+08	6.88E+07	4.76E+06	5.54E+04	7.53E+00	1.89E-11	8.71E-31	0.0	0.0	0.0
ND144	2.20E-05	2.94E-05	3.25E-05	3.45E-05	3.46E-05	3.46E-05	3.46E-05	3.46E-05	3.46E-05	3.46E-05	3.46E-05
PM147	5.50E+10	4.23E+10	3.24E+10	1.47E+10	3.92E+09	2.79E+08	1.01E+05	1.86E-01	6.26E-13	0.0	0.0
SM147	1.90E+00	2.21E+00	2.45E+00	2.89E+00	3.15E+00	3.24E+00	3.25E+00	3.25E+00	3.25E+00	3.25E+00	3.25E+00
SM148	3.60E-21	4.50E-21	5.51E-21	9.16E-21	1.70E-20	3.76E-20	1.19E-19	2.74E-19	5.88E-19	1.53E-18	3.11E-18
EU152	7.60E+08	7.23E+08	6.87E+08	5.89E+08	4.57E+08	2.74E+08	5.95E+07	4.66E+06	2.85E+04	6.56E-03	5.66E-14
EU154	3.20E+10	2.95E+10	2.72E+10	2.14E+10	1.43E+10	6.39E+09	5.70E+08	1.01E+07	3.21E+03	1.02E-07	3.24E-25
GD152	9.70E-06	1.10E-05	1.23E-05	1.57E-05	2.04E-05	2.68E-05	3.43E-05	3.62E-05	3.64E-05	3.64E-05	3.64E-05
TOTAL	2.34E+12	2.14E+12	2.00E+12	1.76E+12	1.52E+12	1.19E+12	5.88E+11	1.82E+11	1.76E+10	1.61E+07	1.43E+02

FISSION PRODUCTS

 NUCLIDE THERMAL POWER, WATTS
 BASIS = GUSSBH. TYP II, 16/6

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
SR 90	1.19E-02	1.16E-02	1.14E-02	1.06E-02	9.40E-03	7.41E-03	3.63E-03	1.10E-03	1.02E-04	8.11E-08	5.52E-13
Y 90	5.69E-02	5.56E-02	5.43E-02	5.06E-02	4.49E-02	3.54E-02	1.73E-02	5.27E-03	4.88E-04	3.87E-07	2.64E-12
RU106	8.82E-05	4.43E-05	2.23E-05	2.83E-06	9.11E-08	9.41E-11	1.04E-19	1.23E-34	0.0	0.0	0.0
RH106	1.43E-02	7.17E-03	3.61E-03	4.59E-04	1.47E-05	1.52E-08	1.68E-17	1.98E-32	0.0	0.0	0.0
SB125	7.18E-04	5.59E-04	4.35E-04	2.05E-04	5.84E-05	4.74E-06	2.54E-09	8.98E-15	1.12E-25	0.0	0.0
TE125M	7.27E-05	3.70E-05	2.85E-05	1.34E-05	3.83E-06	3.11E-07	1.67E-10	5.90E-16	7.37E-27	0.0	0.0
CS134	4.95E-02	3.54E-02	2.53E-02	9.23E-03	1.72E-03	5.97E-05	2.49E-09	1.26E-16	3.19E-31	0.0	0.0
CS137	1.73E-02	1.70E-02	1.66E-02	1.55E-02	1.38E-02	1.09E-02	5.47E-03	1.72E-03	1.71E-04	1.67E-07	1.61E-12
BA137M	5.73E-02	5.69E-02	5.56E-02	5.19E-02	4.62E-02	3.67E-02	1.84E-02	5.78E-03	5.74E-04	5.61E-07	5.41E-12
CE144	6.10E-04	2.50E-04	1.03E-04	7.11E-06	8.28E-08	1.12E-11	2.82E-23	1.30E-42	0.0	0.0	0.0
PR144	6.76E-03	2.77E-03	1.14E-03	7.87E-05	9.18E-07	1.25E-10	3.12E-22	1.44E-41	0.0	0.0	0.0
PR144M	3.70E-06	1.55E-06	6.36E-07	4.40E-08	5.12E-10	6.96E-14	1.74E-25	8.05E-45	0.0	0.0	0.0
PM147	5.33E-04	4.10E-04	3.14E-04	1.42E-04	3.80E-05	2.71E-06	9.80E-10	1.80E-15	6.07E-27	0.0	0.0
SM147	7.03E-13	8.19E-13	9.08E-13	1.07E-12	1.17E-12	1.20E-12	1.20E-12	1.20E-12	1.20E-12	1.20E-12	1.20E-12
SM148	1.16E-33	1.45E-33	1.78E-33	2.95E-33	5.49E-33	1.21E-32	3.85E-32	8.83E-32	1.90E-31	4.95E-31	1.00E-30
EU152	1.56E-04	1.48E-04	1.41E-04	1.21E-04	9.36E-05	5.62E-05	1.22E-05	9.54E-07	5.85E-09	1.34E-15	1.16E-26
EU154	7.74E-03	7.14E-03	6.59E-03	5.17E-03	3.46E-03	1.54E-03	1.38E-04	2.45E-06	7.76E-10	2.46E-20	7.84E-38
GD152	3.42E-18	3.88E-18	4.33E-18	5.53E-18	7.17E-18	9.42E-18	1.21E-17	1.28E-17	1.28E-17	1.28E-17	1.28E-17
TOTAL	2.24E-01	1.95E-01	1.76E-01	1.44E-01	1.20E-01	9.21E-02	4.49E-02	1.39E-02	1.34E-03	1.20E-06	1.14E-11

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

		RADIOACTIVITY ,BECQUEREL										
TOTAL		INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
		5.08E+12	4.59E+12	4.22E+12	3.43E+12	2.64E+12	1.82E+12	9.08E+11	3.87E+11	1.22E+11	2.27E+10	8.55E+09
		THERMAL POWER ,WATTS										
TOTAL		INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
		1.06E+00	9.34E-01	8.29E-01	5.99E-01	3.77E-01	1.94E-01	8.77E-02	4.83E-02	2.57E-02	1.29E-02	7.28E-03

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP II, 20/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y	
C 14	3.80E+08	3.80E+08	3.80E+08	3.80E+08	3.80E+08	3.80E+08	3.79E+08	3.78E+08	3.76E+08	3.71E+08	3.58E+08	3.37E+08
NA 22	1.50E+05	1.15E+05	8.81E+04	3.96E+04	1.05E+04	7.29E+02	2.47E-01	4.07E-07	1.10E-18	0.0	0.0	0.0
CL 36	7.60E+06	7.60E+06	7.60E+06	7.60E+06	7.60E+06	7.60E+06	7.60E+06	7.60E+06	7.60E+06	7.59E+06	7.59E+06	7.59E+06
FE 55	1.40E+12	1.07E+12	8.22E+11	3.69E+11	9.74E+10	6.78E+09	2.28E+06	3.72E+00	9.89E-12	0.0	0.0	0.0
CO 58	3.10E+09	8.68E+07	2.43E+06	5.32E+01	9.12E-07	2.68E-22	0.0	0.0	0.0	0.0	0.0	0.0
CO 60	3.00E+11	2.63E+11	2.31E+11	1.56E+11	8.06E+10	2.16E+10	4.19E+08	5.84E+05	1.14E+00	8.35E-18	0.0	0.0
NI 59	3.80E+08	3.80E+08	3.80E+08	3.80E+08	3.80E+08	3.80E+08	3.80E+08	3.80E+08	3.80E+08	3.79E+08	3.77E+08	3.77E+08
NI 63	1.50E+11	1.49E+11	1.48E+11	1.45E+11	1.39E+11	1.29E+11	1.03E+11	7.07E+10	3.33E+10	3.47E+09	8.03E+07	8.03E+07
TOTAL	1.85E+12	1.49E+12	1.20E+12	6.70E+11	3.18E+11	1.58E+11	1.04E+11	7.14E+10	3.40E+10	4.22E+09	8.02E+08	8.02E+08

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 20/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	3.01E-06	3.01E-06	3.01E-06	3.01E-06	3.01E-06	3.01E-06	3.00E-06	2.98E-06	2.94E-06	2.84E-06	2.67E-06
NA 22	5.74E-08	4.40E-08	3.37E-08	1.52E-08	4.00E-09	2.79E-10	9.45E-14	1.56E-19	4.22E-31	0.0	0.0
CL 36	3.01E-07	3.01E-07	3.01E-07	3.00E-07	3.00E-07	3.00E-07	3.00E-07	3.00E-07	3.00E-07	3.00E-07	3.00E-07
FE 55	5.21E-02	3.99E-02	3.05E-02	1.37E-02	3.62E-03	2.52E-04	8.49E-08	1.38E-13	3.68E-25	0.0	0.0
CO 58	5.02E-04	1.40E-05	3.93E-07	8.61E-12	1.48E-19	4.34E-35	0.0	0.0	0.0	0.0	0.0
CO 60	1.25E-01	1.10E-01	9.61E-02	6.48E-02	3.36E-02	9.01E-03	1.74E-04	2.43E-07	4.73E-13	3.48E-30	0.0
NI 59	6.54E-05	6.54E-05	6.54E-05	6.54E-05	6.54E-05	6.54E-05	6.54E-05	6.54E-05	6.53E-05	6.51E-05	6.48E-05
NI 63	1.61E-03	1.60E-03	1.59E-03	1.55E-03	1.49E-03	1.39E-03	1.11E-03	7.58E-04	3.57E-04	3.73E-05	8.62E-07
TOTAL	1.79E-01	1.51E-01	1.28E-01	8.02E-02	3.88E-02	1.07E-02	1.35E-03	8.27E-04	4.26E-04	1.06E-04	6.87E-05

ACTINIDES

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP II, 20/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	2.00E-04	2.40E-04	2.83E-04	4.29E-04	7.27E-04	1.49E-03	4.63E-03	1.11E-02	2.49E-02	7.11E-02	1.41E-01
TL208	7.70E-01	1.49E+00	1.54E+00	1.60E+00	1.57E+00	1.43E+00	1.07E+00	6.62E-01	2.53E-01	1.41E-02	1.17E-04
TL209	2.00E-07	2.43E-07	2.85E-07	4.22E-07	6.84E-07	1.33E-06	4.33E-06	1.32E-05	4.81E-05	3.36E-04	1.63E-03
PB209	9.20E-06	1.10E-05	1.30E-05	1.92E-05	3.11E-05	6.06E-05	1.97E-04	6.00E-04	2.19E-03	1.53E-02	7.39E-02
PB210	9.90E-07	1.23E-06	1.51E-06	2.67E-06	6.01E-06	2.12E-05	2.17E-04	1.65E-03	1.25E-02	1.66E-01	7.58E-01
PB211	2.00E-04	2.40E-04	2.83E-04	4.30E-04	7.29E-04	1.49E-03	4.65E-03	1.11E-02	2.50E-02	7.13E-02	1.41E-01
PB212	2.20E+00	4.15E+00	4.30E+00	4.46E+00	4.37E+00	3.98E+00	2.99E+00	1.84E+00	7.05E-01	3.93E-02	3.26E-04
PB214	7.60E-06	9.63E-06	1.14E-05	1.80E-05	3.46E-05	9.52E-05	6.12E-04	3.23E-03	1.83E-02	1.66E-01	7.58E-01
BI210	9.90E-07	1.23E-06	1.51E-06	2.67E-06	6.01E-06	2.12E-05	2.17E-04	1.65E-03	1.25E-02	1.66E-01	7.58E-01
BI211	2.00E-04	2.40E-04	2.83E-04	4.30E-04	7.29E-04	1.49E-03	4.65E-03	1.11E-02	2.50E-02	7.13E-02	1.41E-01
BI212	2.20E+00	4.15E+00	4.30E+00	4.46E+00	4.37E+00	3.98E+00	2.99E+00	1.84E+00	7.05E-01	3.93E-02	3.26E-04
BI213	9.20E-06	1.10E-05	1.30E-05	1.92E-05	3.11E-05	6.06E-05	1.97E-04	6.00E-04	2.19E-03	1.53E-02	7.39E-02
BI214	7.60E-06	9.63E-06	1.14E-05	1.80E-05	3.46E-05	9.52E-05	6.12E-04	3.23E-03	1.83E-02	1.66E-01	7.58E-01
PO210	9.90E-07	1.11E-06	1.35E-06	2.41E-06	6.01E-06	2.12E-05	2.17E-04	1.65E-03	1.25E-02	1.66E-01	7.58E-01
PO211	6.10E-07	7.21E-07	8.50E-07	1.29E-06	2.19E-06	4.48E-06	1.39E-05	3.33E-05	7.49E-05	2.14E-04	4.24E-04
PO212	1.40E+00	2.66E+00	2.76E+00	2.86E+00	2.80E+00	2.55E+00	1.91E+00	1.18E+00	4.52E-01	2.52E-02	2.09E-04
PO213	9.00E-06	1.08E-05	1.27E-05	1.88E-05	3.04E-05	5.93E-05	1.93E-04	5.86E-04	2.14E-03	1.49E-02	7.23E-02
PO214	7.60E-06	9.63E-06	1.14E-05	1.80E-05	3.46E-05	9.52E-05	6.12E-04	3.23E-03	1.83E-02	1.66E-01	7.58E-01
PO215	2.00E-04	2.40E-04	2.83E-04	4.30E-04	7.29E-04	1.49E-03	4.65E-03	1.11E-02	2.50E-02	7.13E-02	1.41E-01
PO216	2.20E+00	4.15E+00	4.30E+00	4.46E+00	4.37E+00	3.98E+00	2.99E+00	1.84E+00	7.05E-01	3.93E-02	3.26E-04
PO218	7.60E-06	9.63E-06	1.14E-05	1.80E-05	3.46E-05	9.52E-05	6.12E-04	3.23E-03	1.83E-02	1.66E-01	7.58E-01
AT217	9.20E-06	1.10E-05	1.30E-05	1.92E-05	3.11E-05	6.06E-05	1.97E-04	6.00E-04	2.19E-03	1.53E-02	7.39E-02
RN219	2.00E-04	2.40E-04	2.83E-04	4.30E-04	7.29E-04	1.49E-03	4.65E-03	1.11E-02	2.50E-02	7.13E-02	1.41E-01
RN220	2.20E+00	4.15E+00	4.30E+00	4.46E+00	4.37E+00	3.98E+00	2.99E+00	1.84E+00	7.05E-01	3.93E-02	3.26E-04
RN222	8.10E-06	9.63E-06	1.14E-05	1.80E-05	3.46E-05	9.52E-05	6.12E-04	3.23E-03	1.83E-02	1.66E-01	7.58E-01
FR221	9.20E-06	1.10E-05	1.30E-05	1.92E-05	3.11E-05	6.06E-05	1.97E-04	6.00E-04	2.19E-03	1.53E-02	7.39E-02
FR223	2.80E-06	3.36E-06	3.96E-06	6.01E-06	1.02E-05	2.09E-05	6.51E-05	1.56E-04	3.49E-04	9.99E-04	1.98E-03
RA223	2.00E-04	2.40E-04	2.83E-04	4.30E-04	7.29E-04	1.49E-03	4.65E-03	1.11E-02	2.50E-02	7.13E-02	1.41E-01
RA224	2.20E+00	4.15E+00	4.30E+00	4.46E+00	4.37E+00	3.98E+00	2.99E+00	1.84E+00	7.05E-01	3.93E-02	3.26E-04
RA225	9.20E-06	1.10E-05	1.30E-05	1.92E-05	3.11E-05	6.06E-05	1.97E-04	6.00E-04	2.19E-03	1.53E-02	7.39E-02
RA226	8.10E-06	9.63E-06	1.14E-05	1.80E-05	3.46E-05	9.52E-05	6.12E-04	3.23E-03	1.83E-02	1.66E-01	7.58E-01
RA228	3.60E-08	4.02E-08	4.45E-08	5.91E-08	8.59E-08	1.45E-07	3.35E-07	6.57E-07	1.37E-06	3.33E-06	6.69E-06
AC225	9.20E-06	1.10E-05	1.30E-05	1.92E-05	3.11E-05	6.06E-05	1.97E-04	6.00E-04	2.19E-03	1.53E-02	7.39E-02
AC227	2.00E-04	2.40E-04	2.83E-04	4.30E-04	7.29E-04	1.49E-03	4.65E-03	1.11E-02	2.50E-02	7.13E-02	1.41E-01
AC228	2.90E-08	4.02E-08	4.45E-08	5.91E-08	8.59E-08	1.45E-07	3.35E-07	6.57E-07	1.37E-06	3.33E-06	6.69E-06
TH227	2.00E-04	2.37E-04	2.79E-04	4.24E-04	7.19E-04	1.47E-03	4.58E-03	1.10E-02	2.46E-02	7.03E-02	1.39E-01
TH228	3.90E+00	4.14E+00	4.29E+00	4.45E+00	4.36E+00	3.98E+00	2.99E+00	1.84E+00	7.05E-01	3.93E-02	3.26E-04
TH229	9.20E-06	1.10E-05	1.30E-05	1.92E-05	3.11E-05	6.06E-05	1.97E-04	6.00E-04	2.19E-03	1.53E-02	7.39E-02
TH230	3.30E-03	3.77E-03	4.27E-03	5.99E-03	9.55E-03	1.91E-02	6.52E-02	1.88E-01	5.44E-01	1.93E+00	4.40E+00
TH231	6.60E+00	6.60E+00	6.60E+00	6.60E+00	6.60E+00	6.61E+00	6.61E+00	6.62E+00	6.64E+00	6.69E+00	6.78E+00
TH232	7.60E-08	8.24E-08	8.89E-08	1.08E-07	1.40E-07	2.04E-07	3.97E-07	7.20E-07	1.37E-06	3.33E-06	6.69E-06
TH234	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02
PA231	1.40E-03	1.54E-03	1.68E-03	2.10E-03	2.80E-03	4.20E-03	8.39E-03	1.54E-02	2.93E-02	7.13E-02	1.41E-01
PA233	1.80E+02	1.80E+02	1.81E+02	1.82E+02	1.84E+02	1.89E+02	2.09E+02	2.45E+02	3.09E+02	4.50E+02	5.76E+02
PA234M	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02
PA234	1.90E-01	1.95E-01	1.95E-01	1.95E-01	1.95E-01	1.95E-01	1.95E-01	1.95E-01	1.95E-01	1.95E-01	1.95E-01
U 232	4.70E+00	4.66E+00	4.61E+00	4.48E+00	4.27E+00	3.88E+00	2.91E+00	1.80E+00	6.86E-01	3.82E-02	3.10E-04
U 233	1.90E-02	1.99E-02	2.08E-02	2.32E-02	2.72E-02	3.54E-02	6.14E-02	1.11E-01	2.32E-01	7.37E-01	1.87E+00
U 234	5.00E+01	5.40E+01	5.79E+01	6.95E+01	8.83E+01	1.24E+02	2.14E+02	3.25E+02	4.50E+02	5.44E+02	5.54E+02

U 235	6.60E+00	6.60E+00	6.60E+00	6.60E+00	6.60E+00	6.61E+00	6.61E+00	6.62E+00	6.64E+00	6.69E+00	6.78E+00
U 236	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.31E+02	1.32E+02	1.34E+02	1.38E+02
U 237	4.30E+02	1.15E+03	1.09E+03	9.45E+02	7.43E+02	4.59E+02	1.08E+02	9.77E+00	7.94E-02	4.26E-08	1.51E-18
U 238	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02
U 240	1.70E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04
NP237	1.80E+02	1.80E+02	1.81E+02	1.82E+02	1.84E+02	1.89E+02	2.09E+02	2.45E+02	3.09E+02	4.50E+02	5.76E+02
NP238	5.40E+00	1.15E+01	1.14E+01	1.12E+01	1.10E+01	1.05E+01	9.16E+00	7.29E+00	4.62E+00	1.18E+00	1.21E-01
NP239	6.40E+03	1.30E+04	1.30E+04	1.30E+04	1.30E+04	1.30E+04	1.30E+04	1.29E+04	1.29E+04	1.28E+04	1.24E+04
NP240M	1.70E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04
PU238	1.40E+06	1.39E+06	1.38E+06	1.35E+06	1.30E+06	1.20E+06	9.46E+05	6.38E+05	2.90E+05	2.74E+04	5.67E+02
PU239	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.79E+05	1.78E+05	1.75E+05
PU240	2.80E+05	2.80E+05	2.80E+05	2.81E+05	2.81E+05	2.81E+05	2.82E+05	2.81E+05	2.78E+05	2.69E+05	2.55E+05
PU241	4.80E+07	4.58E+07	4.36E+07	3.78E+07	2.97E+07	1.83E+07	4.33E+06	3.90E+05	3.17E+03	1.70E-03	6.03E-14
PU242	1.30E+03	1.30E+03	1.30E+03	1.30E+03	1.30E+03	1.30E+03	1.30E+03	1.30E+03	1.30E+03	1.30E+03	1.30E+03
PU244	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04	3.60E-04
AM241	8.70E+05	9.44E+05	1.01E+06	1.20E+06	1.46E+06	1.81E+06	2.18E+06	2.14E+06	1.83E+06	1.13E+06	5.08E+05
AM242M	2.30E+03	2.29E+03	2.28E+03	2.25E+03	2.20E+03	2.10E+03	1.83E+03	1.46E+03	9.25E+02	2.35E+02	2.41E+01
AM242	1.10E+03	2.28E+03	2.27E+03	2.24E+03	2.19E+03	2.09E+03	1.82E+03	1.45E+03	9.20E+02	2.34E+02	2.40E+01
AM243	1.30E+04	1.30E+04	1.30E+04	1.30E+04	1.30E+04	1.30E+04	1.29E+04	1.29E+04	1.28E+04	1.24E+04	1.18E+04
CM242	5.10E+05	1.10E+05	2.47E+04	2.07E+03	1.81E+03	1.73E+03	1.51E+03	1.20E+03	7.61E+02	1.94E+02	1.98E+01
CM243	9.20E+03	8.98E+03	8.77E+03	8.15E+03	7.22E+03	5.66E+03	2.73E+03	8.09E+02	7.11E+01	4.83E-02	2.54E-07
CM244	1.30E+06	1.25E+06	1.20E+06	1.07E+06	8.87E+05	6.05E+05	1.92E+05	2.83E+04	6.17E+02	6.38E-03	3.13E-11
TOTAL	5.26E+07	5.00E+07	4.77E+07	4.19E+07	3.38E+07	2.25E+07	8.15E+06	3.69E+06	2.61E+06	1.64E+06	9.67E+05

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 20/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	1.59E-17	1.90E-17	2.24E-17	3.40E-17	5.77E-17	1.18E-16	3.68E-16	8.80E-16	1.98E-15	5.64E-15	1.12E-14
TL208	4.90E-13	9.48E-13	9.83E-13	1.02E-12	9.97E-13	9.10E-13	6.82E-13	4.21E-13	1.61E-13	8.96E-15	7.44E-17
TL209	8.98E-20	1.09E-19	1.28E-19	1.90E-19	3.07E-19	5.99E-19	1.95E-18	5.92E-18	2.16E-17	1.51E-16	7.30E-16
PB209	2.86E-19	3.43E-19	4.03E-19	5.97E-19	9.67E-19	1.88E-18	6.12E-18	1.86E-17	6.80E-17	4.74E-16	2.30E-15
PB210	6.20E-21	7.71E-21	9.48E-21	1.67E-20	3.76E-20	1.33E-19	1.36E-18	1.03E-17	7.85E-17	1.04E-15	4.75E-15
PB211	1.62E-17	1.95E-17	2.30E-17	3.48E-17	5.90E-17	1.21E-16	3.76E-16	9.00E-16	2.02E-15	5.78E-15	1.15E-14
PB212	1.13E-13	2.14E-13	2.21E-13	2.29E-13	2.25E-13	2.05E-13	1.54E-13	9.49E-14	3.63E-14	2.02E-15	1.68E-17
PB214	6.55E-19	8.30E-19	9.80E-19	1.55E-18	2.98E-18	8.21E-18	5.28E-17	2.78E-16	1.57E-15	1.43E-14	6.53E-14
BI210	6.17E-20	7.67E-20	9.44E-20	1.67E-19	3.74E-19	1.32E-18	1.35E-17	1.03E-16	7.81E-16	1.04E-14	4.72E-14
BI211	2.16E-16	2.59E-16	3.06E-16	4.64E-16	7.86E-16	1.61E-15	5.01E-15	1.20E-14	2.69E-14	7.69E-14	1.52E-13
BI212	1.01E-12	1.91E-12	1.98E-12	2.05E-12	2.01E-12	1.83E-12	1.37E-12	8.48E-13	3.24E-13	1.80E-14	1.50E-16
BI213	1.05E-18	1.25E-18	1.47E-18	2.18E-18	3.53E-18	6.89E-18	2.24E-17	6.81E-17	2.48E-16	1.73E-15	8.40E-15
BI214	2.63E-18	3.34E-18	3.94E-18	6.23E-18	1.20E-17	3.30E-17	2.12E-16	1.12E-15	6.33E-15	5.76E-14	2.63E-13
PO210	8.58E-19	9.60E-19	1.17E-18	2.09E-18	5.20E-18	1.84E-17	1.88E-16	1.43E-15	1.09E-14	1.44E-13	6.57E-13
PO211	7.42E-19	8.77E-19	1.03E-18	1.57E-18	2.66E-18	5.45E-18	1.70E-17	4.06E-17	9.11E-17	2.60E-16	5.16E-16
PO212	2.01E-12	3.82E-12	3.96E-12	4.10E-12	4.01E-12	3.66E-12	2.74E-12	1.70E-12	6.48E-13	3.61E-14	2.99E-16
PO213	1.23E-17	1.48E-17	1.73E-17	2.57E-17	4.16E-17	8.11E-17	2.63E-16	8.02E-16	2.92E-15	2.04E-14	9.89E-14
PO214	9.54E-18	1.21E-17	1.43E-17	2.26E-17	4.34E-17	1.20E-16	7.69E-16	4.05E-15	2.29E-14	2.09E-13	9.51E-13
PO215	2.41E-16	2.90E-16	3.42E-16	5.19E-16	8.79E-16	1.80E-15	5.60E-15	1.34E-14	3.01E-14	8.60E-14	1.71E-13
PO216	2.35E-12	4.44E-12	4.60E-12	4.77E-12	4.67E-12	4.26E-12	3.19E-12	1.97E-12	7.54E-13	4.20E-14	3.48E-16
PO218	7.45E-18	9.43E-18	1.11E-17	1.76E-17	3.39E-17	9.33E-17	6.00E-16	3.16E-15	1.79E-14	1.63E-13	7.42E-13
AT217	1.06E-17	1.27E-17	1.50E-17	2.21E-17	3.59E-17	6.99E-17	2.27E-16	6.92E-16	2.52E-15	1.76E-14	8.53E-14
RN219	2.23E-16	2.67E-16	3.15E-16	4.79E-16	8.11E-16	1.66E-15	5.17E-15	1.24E-14	2.78E-14	7.94E-14	1.57E-13
RN220	2.26E-12	4.26E-12	4.42E-12	4.58E-12	4.48E-12	4.09E-12	3.06E-12	1.89E-12	7.23E-13	4.03E-14	3.34E-16
RN222	7.26E-18	8.62E-18	1.02E-17	1.61E-17	3.10E-17	8.53E-17	5.48E-16	2.89E-15	1.64E-14	1.49E-13	6.79E-13
FR221	9.52E-18	1.14E-17	1.34E-17	1.99E-17	3.22E-17	6.27E-17	2.04E-16	6.20E-16	2.26E-15	1.58E-14	7.65E-14
FR223	1.97E-19	2.36E-19	2.78E-19	4.22E-19	7.16E-19	1.47E-18	4.57E-18	1.09E-17	2.45E-17	7.01E-17	1.39E-16
RA223	1.92E-16	2.30E-16	2.71E-16	4.12E-16	6.98E-16	1.43E-15	4.45E-15	1.06E-14	2.39E-14	6.83E-14	1.35E-13
RA224	2.04E-12	3.85E-12	3.99E-12	4.14E-12	4.05E-12	3.70E-12	2.77E-12	1.71E-12	6.53E-13	3.64E-14	3.02E-16
RA225	1.74E-19	2.09E-19	2.46E-19	3.64E-19	5.90E-19	1.15E-18	3.73E-18	1.14E-17	4.14E-17	2.89E-16	1.40E-15
RA226	6.32E-18	7.51E-18	8.87E-18	1.40E-17	2.70E-17	7.43E-17	4.78E-16	2.52E-15	1.43E-14	1.30E-13	5.92E-13
RA228	7.50E-23	8.36E-23	9.27E-23	1.23E-22	1.79E-22	3.02E-22	6.98E-22	1.37E-21	2.85E-21	6.94E-21	1.39E-20
AC225	8.75E-18	1.05E-17	1.23E-17	1.83E-17	2.96E-17	5.76E-17	1.87E-16	5.70E-16	2.08E-15	1.45E-14	7.03E-14
AC227	2.62E-18	3.14E-18	3.70E-18	5.62E-18	9.53E-18	1.95E-17	6.08E-17	1.45E-16	3.27E-16	9.34E-16	1.85E-15
AC228	6.78E-21	9.38E-21	1.04E-20	1.38E-20	2.01E-20	3.39E-20	7.83E-20	1.54E-19	3.19E-19	7.79E-19	1.56E-18
TH227	1.97E-16	2.33E-16	2.75E-16	4.18E-16	7.08E-16	1.45E-15	4.51E-15	1.08E-14	2.42E-14	6.93E-14	1.37E-13
TH228	3.45E-12	3.66E-12	3.79E-12	3.94E-12	3.86E-12	3.52E-12	2.64E-12	1.63E-12	6.23E-13	3.47E-14	2.88E-16
TH229	7.62E-18	9.14E-18	1.07E-17	1.59E-17	2.58E-17	5.02E-17	1.63E-16	4.96E-16	1.81E-15	1.26E-14	6.12E-14
TH230	2.52E-15	2.88E-15	3.27E-15	4.58E-15	7.30E-15	1.46E-14	4.98E-14	1.44E-13	4.16E-12	1.47E-12	3.36E-12
TH231	1.00E-13	1.00E-13	1.00E-13	1.00E-13	1.00E-13	1.00E-13	1.00E-13	1.00E-13	1.01E-13	1.02E-13	1.03E-13
TH232	4.97E-20	5.39E-20	5.81E-20	7.07E-20	9.17E-20	1.34E-19	2.60E-19	4.70E-19	8.94E-19	2.18E-18	4.37E-18
TH234	1.64E-12	1.64E-12	1.64E-12	1.64E-12	1.64E-12	1.64E-12	1.64E-12	1.64E-12	1.64E-12	1.64E-12	1.64E-12
PA231	1.16E-15	1.27E-15	1.39E-15	1.73E-15	2.31E-15	3.46E-15	6.92E-15	1.27E-14	2.42E-14	5.88E-14	1.17E-13
PA233	1.10E-11	1.11E-11	1.11E-11	1.12E-11	1.13E-11	1.16E-11	1.28E-11	1.50E-11	1.89E-11	2.76E-11	3.53E-11
PA234M	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11
PA234	7.38E-14	7.57E-14	7.57E-14	7.57E-14	7.57E-14	7.57E-14	7.57E-14	7.57E-14	7.57E-14	7.57E-14	7.57E-14
U 232	4.08E-12	4.04E-12	4.00E-12	3.89E-12	3.70E-12	3.36E-12	2.52E-12	1.56E-12	5.95E-13	3.31E-14	2.69E-16
U 233	1.49E-14	1.56E-14	1.63E-14	1.83E-14	2.14E-14	2.78E-14	4.83E-14	8.73E-14	1.83E-13	5.79E-13	1.47E-12
U 234	3.89E-11	4.20E-11	4.51E-11	5.41E-11	6.87E-11	9.62E-11	1.67E-10	2.53E-10	3.50E-10	4.24E-10	4.31E-10

U 235	4.95E-12	4.95E-12	4.95E-12	4.95E-12	4.95E-12	4.95E-12	4.95E-12	4.96E-12	4.96E-12	4.98E-12	5.02E-12	5.08E-12
U 236	9.52E-11	9.52E-11	9.52E-11	9.52E-11	9.53E-11	9.53E-11	9.55E-11	9.58E-11	9.64E-11	9.82E-11	1.01E-10	1.01E-10
U 237	2.20E-11	5.86E-11	5.58E-11	4.83E-11	3.80E-11	2.35E-11	5.54E-12	5.00E-13	4.06E-15	2.18E-21	7.72E-32	7.72E-32
U 238	1.03E-10	1.03E-10	1.03E-10	1.03E-10	1.03E-10	1.03E-10	1.03E-10	1.03E-10	1.03E-10	1.03E-10	1.03E-10	1.03E-10
U 240	3.77E-18	7.98E-18	7.98E-18	7.98E-18	7.98E-18	7.98E-18	7.98E-18	7.98E-18	7.98E-18	7.98E-18	7.98E-18	7.98E-18
NP237	1.43E-10	1.43E-10	1.43E-10	1.44E-10	1.46E-10	1.50E-10	1.66E-10	1.94E-10	2.45E-10	3.57E-10	4.58E-10	4.58E-10
NP238	6.99E-13	1.48E-12	1.48E-12	1.46E-12	1.42E-12	1.36E-12	1.19E-12	9.44E-13	5.98E-13	1.52E-13	1.56E-14	1.56E-14
NP239	4.18E-10	8.50E-10	8.50E-10	8.49E-10	8.49E-10	8.48E-10	8.46E-10	8.42E-10	8.34E-10	8.11E-10	7.74E-10	7.74E-10
NP240M	2.66E-17	5.63E-17	5.63E-17	5.63E-17	5.63E-17	5.63E-17	5.63E-17	5.63E-17	5.63E-17	5.63E-17	5.63E-17	5.63E-17
PU238	1.25E-06	1.25E-06	1.24E-06	1.21E-06	1.16E-06	1.07E-06	8.48E-07	5.71E-07	2.60E-07	2.46E-08	5.08E-10	5.08E-10
PU239	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.50E-07	1.49E-07	1.47E-07	1.47E-07
PU240	2.36E-07	2.36E-07	2.36E-07	2.36E-07	2.37E-07	2.37E-07	2.37E-07	2.36E-07	2.34E-07	2.27E-07	2.15E-07	2.15E-07
PU241	4.00E-08	3.81E-08	3.63E-08	3.14E-08	2.47E-08	1.53E-08	3.61E-09	3.25E-10	2.64E-12	1.42E-18	5.02E-29	5.02E-29
PU242	1.04E-09	1.04E-09	1.04E-09	1.04E-09	1.04E-09	1.04E-09	1.04E-09	1.04E-09	1.04E-09	1.04E-09	1.04E-09	1.04E-09
PU244	2.82E-16	2.82E-16	2.82E-16	2.82E-16	2.82E-16	2.82E-16	2.82E-16	2.82E-16	2.82E-16	2.82E-16	2.82E-16	2.82E-16
AM241	7.86E-07	8.53E-07	9.16E-07	1.09E-06	1.32E-06	1.64E-06	1.97E-06	1.93E-06	1.66E-06	1.02E-06	4.59E-07	4.59E-07
AM242M	2.46E-11	2.44E-11	2.43E-11	2.40E-11	2.35E-11	2.24E-11	1.95E-11	1.56E-11	9.86E-12	2.51E-12	2.57E-13	2.57E-13
AM242	3.46E-11	7.16E-11	7.12E-11	7.03E-11	6.87E-11	6.56E-11	5.72E-11	4.56E-11	2.89E-11	7.36E-12	7.53E-13	7.53E-13
AM243	1.13E-08	1.13E-08	1.13E-08	1.13E-08	1.13E-08	1.13E-08	1.13E-08	1.12E-08	1.11E-08	1.08E-08	1.03E-08	1.03E-08
CM242	5.08E-07	1.09E-07	2.46E-08	2.06E-09	1.80E-09	1.72E-09	1.50E-09	1.20E-09	7.58E-10	1.93E-10	1.97E-11	1.97E-11
CM243	9.13E-09	8.91E-09	8.69E-09	8.08E-09	7.16E-09	5.61E-09	2.71E-09	8.02E-10	7.05E-11	4.79E-14	2.51E-19	2.51E-19
CM244	1.23E-06	1.18E-06	1.14E-06	1.02E-06	8.39E-07	5.72E-07	1.81E-07	2.68E-08	5.84E-10	6.03E-15	2.96E-23	2.96E-23
TOTAL	4.23E-06	3.84E-06	3.76E-06	3.75E-06	3.76E-06	3.71E-06	3.41E-06	2.93E-06	2.31E-06	1.44E-06	8.35E-07	8.35E-07

FISSION PRODUCTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP II, 20/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	1.40E+09	1.32E+09	1.25E+09	1.06E+09	7.99E+08	4.56E+08	8.47E+07	5.12E+06	1.87E+04	9.13E-04	5.96E-16
SR 90	4.40E+10	4.30E+10	4.20E+10	3.91E+10	3.47E+10	2.73E+10	1.34E+10	4.08E+09	3.77E+08	2.99E+05	2.04E+00
Y 90	4.40E+10	4.30E+10	4.20E+10	3.91E+10	3.47E+10	2.74E+10	1.34E+10	4.08E+09	3.77E+08	3.00E+05	2.04E+00
ZR 93	1.00E+05	1.00E+05	1.00E+05	1.00E+05	1.00E+05	1.00E+05	1.00E+05	1.00E+05	1.00E+05	1.00E+05	1.00E+05
NB 93M	2.20E+04	2.56E+04	2.91E+04	3.84E+04	5.12E+04	6.87E+04	8.93E+04	9.46E+04	9.50E+04	9.50E+04	9.50E+04
NB 94	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.39E+04	1.38E+04	1.35E+04
TC 99	5.20E+07	5.20E+07	5.20E+07	5.20E+07	5.20E+07	5.20E+07	5.20E+07	5.20E+07	5.20E+07	5.19E+07	5.19E+07
HU106	1.10E+08	5.53E+07	2.78E+07	3.54E+06	1.14E+05	1.18E+02	1.30E-07	1.53E-22	0.0	0.0	0.0
RH106	1.10E+08	5.53E+07	2.78E+07	3.54E+06	1.14E+05	1.18E+02	1.30E-07	1.53E-22	0.0	0.0	0.0
PD107	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03
AG110	4.30E+02	8.21E+05	2.98E+05	1.43E+04	9.02E+01	3.60E-03	2.29E-16	0.0	0.0	0.0	0.0
AG110M	1.70E+08	6.18E+07	2.24E+07	1.07E+06	6.79E+03	2.71E-01	1.72E-14	0.0	0.0	0.0	0.0
SN126	7.60E+05	7.60E+05	7.60E+05	7.60E+05	7.60E+05	7.60E+05	7.60E+05	7.60E+05	7.59E+05	7.58E+05	7.55E+05
SB125	1.20E+10	9.34E+09	7.27E+09	3.42E+09	9.75E+08	7.92E+07	4.25E+04	1.50E-01	1.88E-12	0.0	0.0
SB126	5.10E+04	1.06E+05	1.06E+05	1.06E+05	1.06E+05	1.06E+05	1.06E+05	1.06E+05	1.06E+05	1.06E+05	1.06E+05
SB126M	3.60E+05	7.60E+05	7.60E+05	7.60E+05	7.60E+05	7.60E+05	7.60E+05	7.60E+05	7.59E+05	7.58E+05	7.55E+05
TE125M	1.10E+10	2.38E+09	1.77E+09	8.35E+08	2.38E+08	1.93E+07	1.04E+04	3.66E-02	4.58E-13	0.0	0.0
I 129	2.60E+07	2.60E+07	2.60E+07	2.60E+07	2.60E+07	2.60E+07	2.60E+07	2.60E+07	2.60E+07	2.60E+07	2.60E+07
CS134	4.10E+10	2.93E+10	2.09E+10	7.64E+09	1.42E+09	4.94E+07	2.07E+03	1.04E-04	2.64E-19	0.0	0.0
CS135	6.20E+06	6.20E+06	6.20E+06	6.20E+06	6.20E+06	6.20E+06	6.20E+06	6.20E+06	6.20E+06	6.20E+06	6.20E+06
CS137	1.20E+12	1.17E+12	1.15E+12	1.07E+12	9.53E+11	7.56E+11	3.78E+11	1.19E+11	1.18E+10	1.16E+07	1.11E+02
BA137M	1.20E+12	1.11E+12	1.08E+12	1.01E+12	9.01E+11	7.16E+11	3.58E+11	1.13E+11	1.12E+10	1.09E+07	1.05E+02
CE144	9.30E+08	3.82E+08	1.57E+08	1.08E+07	1.26E+05	1.72E+01	4.30E-11	1.99E-30	0.0	0.0	0.0
PR144	9.30E+08	3.82E+08	1.57E+08	1.08E+07	1.26E+05	1.72E+01	4.30E-11	1.99E-30	0.0	0.0	0.0
FR144M	1.10E+07	4.58E+06	1.88E+06	1.30E+05	1.52E+03	2.06E-01	5.16E-13	2.38E-32	0.0	0.0	0.0
ND144	3.30E-07	5.34E-07	6.17E-07	6.71E-07	6.75E-07	6.75E-07	6.75E-07	6.75E-07	6.75E-07	6.75E-07	6.75E-07
PM147	1.80E+09	1.38E+09	1.06E+09	4.81E+08	1.28E+08	9.14E+06	3.31E+03	6.08E-03	2.05E-14	0.0	0.0
SM147	3.60E-02	4.63E-02	5.41E-02	6.84E-02	7.70E-02	7.99E-02	8.02E-02	8.02E-02	8.02E-02	8.02E-02	8.02E-02
SM148	2.10E-24	2.44E-24	2.85E-24	4.56E-24	8.51E-24	1.92E-23	6.36E-23	1.48E-22	3.22E-22	8.43E-22	1.71E-21
EU152	4.60E+05	4.37E+05	4.16E+05	3.57E+05	2.76E+05	1.66E+05	3.60E+04	2.82E+03	1.73E+01	3.97E-06	3.42E-17
EU154	7.60E+08	7.01E+08	6.47E+08	5.08E+08	3.40E+08	1.52E+08	1.35E+07	2.41E+05	7.62E+01	2.42E-09	7.70E-27
EU155	2.50E+08	2.17E+08	1.89E+08	1.24E+08	6.18E+07	1.53E+07	2.31E+05	2.13E+02	1.82E-04	1.13E-22	0.0
GD152	3.90E-09	4.70E-09	5.47E-09	7.53E-09	1.03E-08	1.42E-08	1.88E-08	1.99E-08	2.00E-08	2.00E-08	2.00E-08
TOTAL	2.56E+12	2.41E+12	2.35E+12	2.17E+12	1.93E+12	1.53E+12	7.63E+11	2.40E+11	2.39E+10	1.09E+08	8.59E+07

FISSION PRODUCTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 20/0

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	1.28E-06	1.21E-06	1.14E-06	9.66E-07	7.30E-07	4.16E-07	7.73E-08	4.67E-09	1.71E-11	8.34E-19	5.44E-31
SR 90	1.38E-03	1.35E-03	1.32E-03	1.23E-03	1.09E-03	8.58E-04	4.20E-04	1.28E-04	1.18E-05	9.39E-09	6.39E-14
Y 90	6.59E-03	6.44E-03	6.29E-03	5.86E-03	5.20E-03	4.10E-03	2.01E-03	6.11E-04	5.65E-05	4.49E-08	3.05E-13
ZR 93	3.14E-10	3.14E-10	3.14E-10	3.14E-10	3.14E-10	3.14E-10	3.14E-10	3.14E-10	3.14E-10	3.14E-10	3.14E-10
NB 93M	1.05E-10	1.23E-10	1.39E-10	1.84E-10	2.45E-10	3.29E-10	4.28E-10	4.53E-10	4.55E-10	4.55E-10	4.55E-10
NB 94	3.86E-09	3.86E-09	3.86E-09	3.86E-09	3.86E-09	3.86E-09	3.85E-09	3.85E-09	3.84E-09	3.83E-09	3.79E-09
TC 99	7.05E-07	7.05E-07	7.05E-07	7.05E-07	7.05E-07	7.05E-07	7.05E-07	7.05E-07	7.05E-07	7.04E-07	7.03E-07
RU106	1.76E-07	8.87E-08	4.46E-08	5.67E-09	1.82E-10	1.88E-13	2.08E-22	2.45E-37	0.0	0.0	0.0
RH106	2.85E-05	1.43E-05	7.21E-06	9.17E-07	2.95E-08	3.05E-11	3.36E-20	3.96E-35	0.0	0.0	0.0
PD107	2.40E-12	2.40E-12	2.40E-12	2.40E-12	2.40E-12	2.40E-12	2.40E-12	2.40E-12	2.40E-12	2.40E-12	2.40E-12
AG110	8.35E-11	1.60E-07	5.79E-08	2.77E-09	1.75E-11	6.99E-16	4.44E-29	0.0	0.0	0.0	0.0
AG110M	7.68E-05	2.79E-05	1.01E-05	4.85E-07	3.06E-09	1.22E-13	7.76E-27	0.0	0.0	0.0	0.0
SN126	2.56E-08	2.56E-08	2.56E-08	2.56E-08	2.56E-08	2.56E-08	2.56E-08	2.56E-08	2.56E-08	2.55E-08	2.55E-08
SB125	1.01E-03	7.89E-04	6.14E-04	2.89E-04	8.24E-05	6.69E-06	3.59E-09	1.27E-14	1.59E-25	0.0	0.0
SB126	2.55E-08	5.32E-08	5.32E-08	5.32E-08	5.32E-08	5.31E-08	5.31E-08	5.31E-08	5.31E-08	5.30E-08	5.28E-08
SB126M	1.24E-07	2.62E-07	2.62E-07	2.62E-07	2.62E-07	2.62E-07	2.62E-07	2.61E-07	2.61E-07	2.61E-07	2.60E-07
TE125M	2.50E-04	5.41E-05	4.03E-05	1.90E-05	5.41E-06	4.39E-07	2.35E-10	8.32E-16	1.04E-26	0.0	0.0
I 129	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07
CS134	1.13E-02	8.06E-03	5.76E-03	2.10E-03	3.92E-04	1.36E-05	5.68E-10	2.86E-17	7.26E-32	0.0	0.0
CS135	5.59E-08	5.59E-08	5.59E-08	5.59E-08	5.59E-08	5.59E-08	5.59E-08	5.59E-08	5.59E-08	5.59E-08	5.59E-08
CS137	3.59E-02	3.51E-02	3.43E-02	3.20E-02	2.85E-02	2.26E-02	1.13E-02	3.56E-03	3.54E-04	3.46E-07	3.33E-12
BA137M	1.27E-01	1.18E-01	1.15E-01	1.07E-01	9.57E-02	7.59E-02	3.80E-02	1.20E-02	1.19E-03	1.16E-06	1.12E-11
CE144	1.67E-05	6.85E-06	2.81E-06	1.94E-07	2.27E-09	3.08E-13	7.71E-25	3.56E-44	0.0	0.0	0.0
PR144	1.85E-04	7.59E-05	3.11E-05	2.15E-06	2.51E-08	3.41E-12	8.54E-24	3.94E-43	0.0	0.0	0.0
PR144M	1.02E-07	4.24E-08	1.74E-08	1.20E-09	1.40E-11	1.90E-15	4.77E-27	2.20E-46	0.0	0.0	0.0
PM147	1.75E-05	1.34E-05	1.03E-05	4.66E-06	1.24E-06	8.86E-08	3.21E-11	5.89E-17	1.99E-28	0.0	0.0
SM147	1.33E-14	1.71E-14	2.00E-14	2.53E-14	2.85E-14	2.96E-14	2.97E-14	2.97E-14	2.97E-14	2.97E-14	2.97E-14
SM148	6.78E-37	7.87E-37	9.18E-37	1.47E-36	2.75E-36	6.21E-36	2.05E-35	4.79E-35	1.04E-34	2.72E-34	5.52E-34
EU152	9.43E-08	8.96E-08	8.52E-08	7.31E-08	5.67E-08	3.40E-08	7.38E-09	5.78E-10	3.54E-12	8.13E-19	7.02E-30
EU154	1.84E-04	1.70E-04	1.56E-04	1.23E-04	8.21E-05	3.67E-05	3.27E-06	5.82E-08	1.84E-11	5.85E-22	1.86E-39
EU155	4.92E-06	4.28E-06	3.72E-06	2.44E-06	1.22E-06	3.01E-07	4.54E-09	4.20E-12	3.58E-18	2.23E-36	0.0
GD152	1.37E-21	1.66E-21	1.92E-21	2.65E-21	3.64E-21	5.01E-21	6.61E-21	7.02E-21	7.06E-21	7.06E-21	7.06E-21
TOTAL	1.84E-01	1.70E-01	1.64E-01	1.49E-01	1.31E-01	1.04E-01	5.17E-02	1.63E-02	1.61E-03	2.99E-06	1.43E-06

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

RADIOACTIVITY ,BECQUEREL

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	4.41E+12	3.90E+12	3.55E+12	2.84E+12	2.25E+12	1.69E+12	8.67E+11	3.12E+11	5.79E+10	4.33E+09	8.89E+08

THERMAL POWER ,WATTS

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	3.64E-01	3.21E-01	2.92E-01	2.29E-01	1.70E-01	1.14E-01	5.31E-02	1.71E-02	2.04E-03	1.10E-04	7.09E-05

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP II, 20/7

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	5.60E+04	5.60E+04	5.60E+04	5.60E+04	5.60E+04	5.59E+04	5.57E+04	5.54E+04	5.47E+04	5.27E+04	4.96E+04
NA 22	1.30E+03	9.96E+02	7.63E+02	3.43E+02	9.07E+01	6.32E+00	2.14E-03	3.53E-09	9.56E-21	0.0	0.0
V 49	2.60E+06	1.21E+06	5.61E+05	5.62E+04	1.21E+03	5.66E-01	5.74E-11	1.27E-27	0.0	0.0	0.0
MN 54	4.30E+07	1.91E+07	8.51E+06	7.50E+05	1.31E+04	3.97E+00	1.11E-10	2.87E-28	0.0	0.0	0.0
FE 55	5.80E+12	4.44E+12	3.40E+12	1.53E+12	4.04E+11	2.81E+10	9.46E+06	1.54E+01	4.10E-11	0.0	0.0
CO 60	1.40E+13	1.23E+13	1.08E+13	7.26E+12	3.76E+12	1.01E+12	1.95E+10	2.72E+07	5.30E+01	3.90E-16	0.0
NI 59	2.30E+10	2.30E+10	2.30E+10	2.30E+10	2.30E+10	2.30E+10	2.30E+10	2.30E+10	2.30E+10	2.29E+10	2.28E+10
NI 63	6.70E+12	6.65E+12	6.60E+12	6.46E+12	6.22E+12	5.77E+12	4.60E+12	3.16E+12	1.49E+12	1.55E+11	3.59E+09
TOTAL	2.65E+13	2.34E+13	2.08E+13	1.53E+13	1.04E+13	6.83E+12	4.64E+12	3.18E+12	1.51E+12	1.78E+11	2.64E+10

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 20/7

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	4.44E-10	4.44E-10	4.44E-10	4.44E-10	4.44E-10	4.43E-10	4.42E-10	4.39E-10	4.34E-10	4.18E-10	3.94E-10
NA 22	4.97E-10	3.81E-10	2.92E-10	1.31E-10	3.47E-11	2.42E-12	8.19E-16	1.35E-21	3.66E-33	0.0	0.0
V 49	1.79E-09	8.32E-10	3.86E-10	3.87E-11	8.36E-13	3.90E-16	3.95E-26	8.72E-43	0.0	0.0	0.0
MN 54	5.79E-06	2.58E-06	1.15E-06	1.01E-07	1.76E-09	5.34E-13	1.49E-23	3.86E-41	0.0	0.0	0.0
FE 55	2.16E-01	1.65E-01	1.27E-01	5.69E-02	1.50E-02	1.04E-03	3.52E-07	5.73E-13	1.52E-24	0.0	0.0
CO 60	5.84E+00	5.12E+00	4.49E+00	3.02E+00	1.57E+00	4.21E-01	8.14E-03	1.14E-05	2.21E-11	1.62E-28	0.0
NI 59	3.96E-03	3.96E-03	3.96E-03	3.96E-03	3.96E-03	3.96E-03	3.96E-03	3.96E-03	3.95E-03	3.94E-03	3.92E-03
NI 63	7.19E-02	7.14E-02	7.09E-02	6.93E-02	6.67E-02	6.19E-02	4.94E-02	3.39E-02	1.59E-02	1.66E-03	3.85E-05
TOTAL	6.13E+00	5.36E+00	4.69E+00	3.15E+00	1.65E+00	4.88E-01	6.15E-02	3.78E-02	1.99E-02	5.61E-03	3.96E-03

ACTINIDES

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = GUSSBH. TYP II, 20/7

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	3.40E-07	4.25E-07	5.25E-07	9.34E-07	2.09E-06	6.83E-06	5.02E-05	2.52E-04	1.21E-03	9.77E-03	3.83E-02
TL208	2.20E+03	3.17E+03	2.87E+03	2.12E+03	1.27E+03	4.51E+02	1.45E+01	8.21E-02	3.77E-06	3.44E-07	1.34E-06
TL209	3.10E-09	3.87E-09	4.82E-09	8.81E-09	2.03E-08	7.05E-08	6.14E-07	3.96E-06	2.76E-05	3.62E-04	2.37E-03
PB209	1.40E-07	1.76E-07	2.19E-07	4.00E-07	9.25E-07	3.20E-06	2.79E-05	1.80E-04	1.25E-03	1.64E-02	1.08E-01
PB210	7.90E-06	1.04E-05	1.36E-05	2.79E-05	7.61E-05	3.49E-04	5.00E-03	4.50E-02	3.76E-01	5.28E+00	2.44E+01
PB211	3.40E-07	4.26E-07	5.27E-07	9.37E-07	2.09E-06	6.85E-06	5.03E-05	2.53E-04	1.21E-03	9.80E-03	3.84E-02
PB212	9.70E+03	8.83E+03	8.00E+03	5.90E+03	3.53E+03	1.26E+03	4.03E+01	2.29E-01	1.05E-05	9.59E-07	3.72E-06
PB214	8.10E-05	1.02E-04	1.26E-04	2.28E-04	5.21E-04	1.79E-03	1.51E-02	9.07E-02	5.54E-01	5.28E+00	2.44E+01
BI210	7.90E-06	1.05E-05	1.36E-05	2.79E-05	7.61E-05	3.49E-04	5.00E-03	4.50E-02	3.76E-01	5.28E+00	2.44E+01
BI211	3.40E-07	4.26E-07	5.27E-07	9.37E-07	2.09E-06	6.85E-06	5.03E-05	2.53E-04	1.21E-03	9.80E-03	3.84E-02
BI212	6.30E+03	8.83E+03	8.00E+03	5.90E+03	3.53E+03	1.26E+03	4.03E+01	2.29E-01	1.05E-05	9.59E-07	3.72E-06
BI213	1.40E-07	1.76E-07	2.19E-07	4.00E-07	9.25E-07	3.20E-06	2.79E-05	1.80E-04	1.25E-03	1.64E-02	1.08E-01
BI214	8.10E-05	1.02E-04	1.26E-04	2.28E-04	5.21E-04	1.79E-03	1.51E-02	9.07E-02	5.54E-01	5.28E+00	2.44E+01
PO210	7.90E-06	9.15E-06	1.18E-05	2.46E-05	7.61E-05	3.49E-04	5.00E-03	4.50E-02	3.76E-01	5.28E+00	2.44E+01
PO211	1.00E-09	1.28E-09	1.58E-09	2.81E-09	6.28E-09	2.06E-08	1.51E-07	7.58E-07	3.64E-06	2.94E-05	1.15E-04
PO212	4.00E+03	5.66E+03	5.13E+03	3.78E+03	2.26E+03	8.05E+02	2.59E+01	1.47E-01	6.73E-06	6.15E-07	2.39E-06
PO213	1.40E-07	1.72E-07	2.14E-07	3.92E-07	9.04E-07	3.13E-06	2.73E-05	1.76E-04	1.23E-03	1.61E-02	1.05E-01
PO214	8.10E-05	1.02E-04	1.26E-04	2.28E-04	5.21E-04	1.79E-03	1.51E-02	9.07E-02	5.54E-01	5.28E+00	2.44E+01
PO215	3.40E-07	4.26E-07	5.27E-07	9.37E-07	2.09E-06	6.85E-06	5.03E-05	2.53E-04	1.21E-03	9.80E-03	3.84E-02
PO216	6.30E+03	8.83E+03	8.00E+03	5.90E+03	3.53E+03	1.26E+03	4.03E+01	2.29E-01	1.05E-05	9.59E-07	3.72E-06
PO218	8.10E-05	1.02E-04	1.26E-04	2.28E-04	5.21E-04	1.79E-03	1.51E-02	9.07E-02	5.54E-01	5.28E+00	2.44E+01
AT217	1.40E-07	1.76E-07	2.19E-07	4.00E-07	9.25E-07	3.20E-06	2.79E-05	1.80E-04	1.25E-03	1.64E-02	1.08E-01
RN219	3.40E-07	4.26E-07	5.27E-07	9.37E-07	2.09E-06	6.85E-06	5.03E-05	2.53E-04	1.21E-03	9.80E-03	3.84E-02
RN220	6.30E+03	8.83E+03	8.00E+03	5.90E+03	3.53E+03	1.26E+03	4.03E+01	2.29E-01	1.05E-05	9.59E-07	3.72E-06
RN222	8.10E-05	1.02E-04	1.26E-04	2.28E-04	5.21E-04	1.79E-03	1.51E-02	9.07E-02	5.54E-01	5.28E+00	2.44E+01
FR221	1.40E-07	1.76E-07	2.19E-07	4.00E-07	9.25E-07	3.20E-06	2.79E-05	1.80E-04	1.25E-03	1.64E-02	1.08E-01
FR223	4.70E-09	5.96E-09	7.36E-09	1.31E-08	2.93E-08	9.59E-08	7.04E-07	3.54E-06	1.70E-05	1.37E-04	5.38E-04
RA223	3.40E-07	4.26E-07	5.27E-07	9.37E-07	2.09E-06	6.85E-06	5.03E-05	2.53E-04	1.21E-03	9.80E-03	3.84E-02
RA224	9.70E+03	8.83E+03	8.00E+03	5.90E+03	3.53E+03	1.26E+03	4.03E+01	2.29E-01	1.05E-05	9.59E-07	3.72E-06
RA225	1.40E-07	1.76E-07	2.19E-07	4.00E-07	9.25E-07	3.20E-06	2.79E-05	1.80E-04	1.25E-03	1.64E-02	1.08E-01
RA226	8.10E-05	1.02E-04	1.26E-04	2.28E-04	5.21E-04	1.79E-03	1.51E-02	9.07E-02	5.54E-01	5.28E+00	2.44E+01
RA228	7.10E+03	6.41E+03	5.78E+03	4.23E+03	2.52E+03	8.98E+02	4.03E+01	2.29E-01	7.53E-06	9.59E-07	3.72E-06
AC225	1.40E-07	1.76E-07	2.19E-07	4.00E-07	9.25E-07	3.20E-06	2.79E-05	1.80E-04	1.25E-03	1.64E-02	1.08E-01
AC227	3.40E-07	4.25E-07	5.26E-07	9.36E-07	2.09E-06	6.85E-06	5.03E-05	2.53E-04	1.21E-03	9.80E-03	3.84E-02
AC228	7.10E+03	6.41E+03	5.78E+03	4.24E+03	2.53E+03	8.98E+02	4.03E+01	2.29E-01	7.53E-06	9.59E-07	3.72E-06
TH227	3.30E-07	4.20E-07	5.19E-07	9.24E-07	2.06E-06	6.75E-06	4.96E-05	2.49E-04	1.20E-03	9.66E-03	3.79E-02
TH228	9.70E+03	8.80E+03	7.97E+03	5.89E+03	3.53E+03	1.26E+03	4.03E+01	2.29E-01	1.05E-05	9.59E-07	3.72E-06
TH229	1.40E-07	1.76E-07	2.19E-07	4.00E-07	9.25E-07	3.20E-06	2.79E-05	1.80E-04	1.25E-03	1.64E-02	1.08E-01
TH230	4.40E-02	5.22E-02	6.16E-02	9.70E-02	1.79E-01	4.28E-01	1.77E+00	5.59E+00	1.70E+01	6.20E+01	1.42E+02
TH231	2.30E-02	2.67E-02	3.03E-02	4.12E-02	5.95E-02	9.59E-02	2.05E-01	3.87E-01	7.50E-01	1.83E+00	3.62E+00
TH232	2.70E-10	3.20E-10	3.78E-10	5.97E-10	1.11E-09	2.72E-09	1.21E-08	4.28E-08	1.61E-07	9.59E-07	3.72E-06
PA231	2.80E-06	3.33E-06	3.93E-06	6.20E-06	1.15E-05	2.80E-05	1.23E-04	4.36E-04	1.64E-03	9.80E-03	3.84E-02
PA233	1.40E+01	1.62E+01	1.85E+01	2.51E+01	3.62E+01	5.80E+01	1.21E+02	2.21E+02	3.96E+02	7.83E+02	1.13E+03
U 233	3.40E-04	4.13E-04	4.96E-04	7.91E-04	1.46E-03	3.51E-03	1.53E-02	5.28E-02	1.89E-01	9.81E-01	3.11E+00
U 234	8.40E+02	9.76E+02	1.11E+03	1.51E+03	2.15E+03	3.36E+03	6.47E+03	1.03E+04	1.45E+04	1.77E+04	1.80E+04
U 235	2.30E-02	2.67E-02	3.03E-02	4.12E-02	5.95E-02	9.59E-02	2.05E-01	3.87E-01	7.50E-01	1.83E+00	3.62E+00
U 236	9.40E-01	1.09E+00	1.25E+00	1.71E+00	2.48E+00	4.02E+00	8.63E+00	1.63E+01	3.15E+01	7.62E+01	1.48E+02
NP237	1.40E+01	1.62E+01	1.85E+01	2.51E+01	3.62E+01	5.80E+01	1.21E+02	2.21E+02	3.96E+02	7.83E+02	1.13E+03
PU238	4.80E+07	4.77E+07	4.73E+07	4.62E+07	4.44E+07	4.10E+07	3.24E+07	2.18E+07	9.91E+06	9.27E+05	1.79E+04

PU239	3.70E+06	3.70E+06	3.70E+06	3.70E+06	3.70E+06	3.70E+06	3.70E+06	3.70E+06	3.69E+06	3.68E+06	3.65E+06	3.60E+06
PU240	5.20E+06	5.20E+06	5.20E+06	5.20E+06	5.20E+06	5.20E+06	5.20E+06	5.19E+06	5.16E+06	5.11E+06	4.95E+06	4.70E+06
AM241	6.90E+06	6.89E+06	6.88E+06	6.85E+06	6.79E+06	6.69E+06	6.37E+06	5.88E+06	5.01E+06	3.10E+06	1.39E+06	
CM242	9.50E+06	2.02E+06	4.27E+05	4.07E+03	1.75E+00	3.21E-07	1.99E-27	0.0	0.0	0.0	0.0	
CM244	6.50E+06	6.26E+06	6.02E+06	5.37E+06	4.44E+06	3.02E+06	9.60E+05	1.42E+05	3.09E+03	3.19E-02	1.56E-10	
TOTAL	7.99E+07	7.18E+07	6.96E+07	6.74E+07	6.46E+07	5.97E+07	4.86E+07	3.67E+07	2.37E+07	1.26E+07	9.72E+06	

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = GUSSBH. TYP II, 20/7

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	2.70E-20	3.37E-20	4.17E-20	7.41E-20	1.66E-19	5.42E-19	3.98E-18	2.00E-17	9.61E-17	7.76E-16	3.04E-15
TL208	1.40E-09	2.02E-09	1.83E-09	1.35E-09	8.07E-10	2.87E-10	9.21E-12	5.22E-14	2.40E-18	2.19E-19	8.51E-19
TL209	1.39E-21	1.74E-21	2.16E-21	3.96E-21	9.13E-21	3.17E-20	2.76E-19	1.78E-18	1.24E-17	1.62E-16	1.06E-15
PB209	4.35E-21	5.46E-21	6.81E-21	1.24E-20	2.87E-20	9.96E-20	8.67E-19	5.59E-18	3.90E-17	5.11E-16	3.35E-15
PB210	4.95E-20	6.54E-20	8.52E-20	1.75E-19	4.77E-19	2.19E-18	3.13E-17	2.82E-16	2.35E-15	3.31E-14	1.53E-13
PB211	2.75E-20	3.45E-20	4.26E-20	7.59E-20	1.69E-19	5.55E-19	4.07E-18	2.05E-17	9.84E-17	7.94E-16	3.11E-15
PB212	4.99E-10	4.55E-10	4.12E-10	3.04E-10	1.82E-10	6.47E-11	2.08E-12	1.18E-14	5.40E-19	4.94E-20	1.92E-19
PB214	6.98E-18	8.77E-18	1.09E-17	1.96E-17	4.49E-17	1.55E-16	1.30E-15	7.82E-15	4.77E-14	4.55E-13	2.11E-12
BI210	4.93E-19	6.51E-19	8.48E-19	1.74E-18	4.74E-18	2.18E-17	3.11E-16	2.80E-15	2.34E-14	3.29E-13	1.52E-12
BI211	3.67E-19	4.59E-19	5.68E-19	1.01E-18	2.25E-18	7.39E-18	5.42E-17	2.72E-16	1.31E-15	1.06E-14	4.14E-14
BI212	2.90E-09	4.06E-09	3.68E-09	2.71E-09	1.62E-09	5.78E-10	1.85E-11	1.05E-13	4.82E-18	4.41E-19	1.71E-18
BI213	1.59E-20	2.00E-20	2.49E-20	4.55E-20	1.05E-19	3.64E-19	3.17E-18	2.04E-17	1.42E-16	1.87E-15	1.22E-14
BI214	2.81E-17	3.53E-17	4.38E-17	7.90E-17	1.81E-16	6.21E-16	5.22E-15	3.14E-14	1.92E-13	1.83E-12	8.46E-12
PO210	6.85E-18	7.92E-18	1.02E-17	2.13E-17	6.60E-17	3.03E-16	4.33E-15	3.90E-14	3.26E-13	4.57E-12	2.12E-11
PO211	1.22E-21	1.56E-21	1.92E-21	3.42E-21	7.63E-21	2.50E-20	1.84E-19	9.22E-19	4.43E-18	3.58E-17	1.40E-16
PO212	5.74E-09	8.12E-09	7.36E-09	5.43E-09	3.25E-09	1.16E-09	3.71E-11	2.10E-13	9.65E-18	8.82E-19	3.43E-18
PO213	1.92E-19	2.35E-19	2.93E-19	5.35E-19	1.24E-18	4.29E-18	3.73E-17	2.41E-16	1.68E-15	2.20E-14	1.44E-13
PO214	1.02E-16	1.28E-16	1.59E-16	2.86E-16	6.54E-16	2.25E-15	1.89E-14	1.14E-13	6.95E-13	6.63E-12	3.07E-11
PO215	4.10E-19	5.14E-19	6.35E-19	1.13E-18	2.52E-18	8.26E-18	6.07E-17	3.05E-16	1.46E-15	1.18E-14	4.63E-14
PO216	6.74E-09	9.45E-09	8.56E-09	6.31E-09	3.78E-09	1.34E-09	4.32E-11	2.45E-13	1.12E-17	1.03E-18	3.99E-18
PO218	7.94E-17	9.97E-17	1.24E-16	2.23E-16	5.10E-16	1.76E-15	1.48E-14	8.88E-14	5.42E-13	5.17E-12	2.39E-11
AT217	1.62E-19	2.03E-19	2.53E-19	4.62E-19	1.07E-18	3.70E-18	3.22E-17	2.07E-16	1.45E-15	1.90E-14	1.24E-13
RN219	3.79E-19	4.74E-19	5.86E-19	1.04E-18	2.33E-18	7.62E-18	5.60E-17	2.81E-16	1.35E-15	1.09E-14	4.27E-14
RN220	6.47E-09	9.07E-09	8.21E-09	6.06E-09	3.62E-09	1.29E-09	4.14E-11	2.35E-13	1.08E-17	9.84E-19	3.82E-18
RN222	7.26E-17	9.12E-17	1.13E-16	2.04E-16	4.67E-16	1.61E-15	1.35E-14	8.12E-14	4.96E-13	4.73E-12	2.19E-11
FR221	1.45E-19	1.82E-19	2.27E-19	4.14E-19	9.57E-19	3.31E-18	2.89E-17	1.86E-16	1.30E-15	1.70E-14	1.11E-13
FR223	3.30E-22	4.18E-22	5.17E-22	9.20E-22	2.05E-21	6.73E-21	4.94E-20	2.48E-19	1.19E-18	9.63E-18	3.77E-17
RA223	3.26E-19	4.08E-19	5.04E-19	8.98E-19	2.00E-18	6.56E-18	4.82E-17	2.42E-16	1.16E-15	9.39E-15	3.68E-14
RA224	9.00E-09	8.19E-09	7.42E-09	5.47E-09	3.28E-09	1.17E-09	3.74E-11	2.12E-13	9.73E-18	8.89E-19	3.45E-18
RA225	2.65E-21	3.33E-21	4.15E-21	7.59E-21	1.75E-20	6.07E-20	5.29E-19	3.41E-18	2.38E-17	3.12E-16	2.04E-15
RA226	6.32E-17	7.94E-17	9.86E-17	1.78E-16	4.07E-16	1.40E-15	1.18E-14	7.08E-14	4.32E-13	4.12E-12	1.91E-11
RA228	1.48E-11	1.33E-11	1.20E-11	8.82E-12	5.26E-12	1.87E-12	8.40E-14	4.76E-16	1.57E-20	2.00E-21	7.76E-21
AC225	1.33E-19	1.67E-19	2.08E-19	3.81E-19	8.79E-19	3.05E-18	2.65E-17	1.71E-16	1.19E-15	1.56E-14	1.02E-13
AC227	4.45E-21	5.57E-21	6.88E-21	1.22E-20	2.74E-20	8.96E-20	6.58E-19	3.31E-18	1.59E-17	1.28E-16	5.03E-16
AC228	1.66E-09	1.50E-09	1.35E-09	9.89E-10	5.90E-10	2.10E-10	9.42E-12	5.34E-14	1.76E-18	2.24E-19	8.70E-19
TH227	3.25E-19	4.14E-19	5.11E-19	9.10E-19	2.03E-18	6.65E-18	4.88E-17	2.45E-16	1.18E-15	9.52E-15	3.73E-14
TH228	8.58E-09	7.78E-09	7.05E-09	5.21E-09	3.12E-09	1.11E-09	3.57E-11	2.02E-13	9.26E-18	8.48E-19	3.29E-18
TH229	1.16E-19	1.46E-19	1.81E-19	3.32E-19	7.66E-19	2.65E-18	2.31E-17	1.49E-16	1.04E-15	1.36E-14	8.92E-14
TH230	3.36E-14	3.99E-14	4.71E-14	7.41E-14	1.37E-13	3.27E-13	1.35E-12	4.27E-12	1.30E-11	4.74E-11	1.09E-10
TH231	3.49E-16	4.04E-16	4.60E-16	6.26E-16	9.02E-16	1.45E-15	3.11E-15	5.87E-15	1.14E-14	2.78E-14	5.49E-14
TH232	1.77E-22	2.09E-22	2.47E-22	3.90E-22	7.28E-22	1.78E-21	7.90E-21	2.80E-20	1.05E-19	6.27E-19	2.44E-18
PA231	2.31E-18	2.75E-18	3.24E-18	5.12E-18	9.51E-18	2.31E-17	1.02E-16	3.60E-16	1.35E-15	8.08E-15	3.17E-14
PA233	8.59E-13	9.96E-13	1.13E-12	1.54E-12	2.22E-12	3.56E-12	7.45E-12	1.35E-11	2.43E-11	4.80E-11	6.92E-11
U 233	2.68E-16	3.25E-16	3.90E-16	6.22E-16	1.15E-15	2.76E-15	1.20E-14	4.15E-14	1.48E-13	7.72E-13	2.45E-12
U 234	6.54E-10	7.59E-10	8.64E-10	1.17E-09	1.67E-09	2.61E-09	5.03E-09	7.98E-09	1.13E-08	1.38E-08	1.40E-08
U 235	1.72E-14	2.00E-14	2.27E-14	3.09E-14	4.46E-14	7.19E-14	1.54E-13	2.90E-13	5.62E-13	1.37E-12	2.71E-12
U 236	6.89E-13	8.01E-13	9.14E-13	1.25E-12	1.82E-12	2.94E-12	6.32E-12	1.19E-11	2.31E-11	5.58E-11	1.08E-10
NP237	1.11E-11	1.29E-11	1.47E-11	2.00E-11	2.87E-11	4.61E-11	9.64E-11	1.75E-10	3.15E-10	6.22E-10	8.95E-10
PU238	4.30E-05	4.27E-05	4.24E-05	4.14E-05	3.98E-05	3.68E-05	2.90E-05	1.96E-05	8.88E-06	8.30E-07	1.60E-08

PU239	3.11E-06	3.11E-06	3.11E-06	3.11E-06	3.11E-06	3.11E-06	3.11E-06	3.11E-06	3.10E-06	3.09E-06	3.07E-06	3.02E-06
PU240	4.38E-06	4.38E-06	4.38E-06	4.38E-06	4.38E-06	4.38E-06	4.38E-06	4.37E-06	4.35E-06	4.30E-06	4.17E-06	3.95E-06
AM241	6.24E-06	6.23E-06	6.22E-06	6.19E-06	6.14E-06	6.04E-06	5.75E-06	5.31E-06	4.52E-06	2.80E-06	1.25E-06	
CM242	9.46E-06	2.01E-06	4.26E-07	4.06E-09	1.74E-12	3.19E-19	1.98E-39	0.0	0.0	0.0	0.0	
CM244	6.15E-06	5.92E-06	5.70E-06	5.08E-06	4.19E-06	2.86E-06	9.07E-07	1.34E-07	2.92E-09	3.02E-14	1.48E-22	
TOTAL	7.24E-05	6.44E-05	6.23E-05	6.02E-05	5.76E-05	5.32E-05	4.32E-05	3.25E-05	2.08E-05	1.09E-05	8.26E-06	

FISSION PRODUCTS

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = GUSSBH. TYP II, 20/7

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	8.00E+11	7.57E+11	7.15E+11	6.05E+11	4.57E+11	2.61E+11	4.84E+10	2.93E+09	1.07E+07	5.22E-01	3.40E-13
SR 90	9.90E+06	9.67E+06	9.44E+06	8.79E+06	7.81E+06	6.15E+06	3.01E+06	9.17E+05	8.49E+04	6.74E+01	4.58E-04
Y 90	9.90E+06	9.67E+06	9.45E+06	8.80E+06	7.81E+06	6.16E+06	3.01E+06	9.17E+05	8.49E+04	6.74E+01	4.58E-04
NB 94	2.40E+06	2.40E+06	2.40E+06	2.40E+06	2.40E+06	2.40E+06	2.40E+06	2.39E+06	2.38E+06	2.36E+06	2.32E+06
NB 95	1.30E+04	9.70E+00	7.24E-03	3.00E-12	6.94E-28	0.0	0.0	0.0	0.0	0.0	0.0
RU106	3.80E+03	1.91E+03	9.61E+02	1.22E+02	3.93E+00	4.06E-03	4.48E-12	5.28E-27	0.0	0.0	0.0
RH106	3.80E+03	1.91E+03	9.61E+02	1.22E+02	3.93E+00	4.06E-03	4.48E-12	5.28E-27	0.0	0.0	0.0
AG108	2.70E+03	3.37E+03	3.35E+03	3.29E+03	3.20E+03	3.03E+03	2.58E+03	1.96E+03	1.14E+03	2.21E+02	1.44E+01
AG108M	3.80E+04	3.78E+04	3.76E+04	3.70E+04	3.60E+04	3.41E+04	2.89E+04	2.20E+04	1.28E+04	2.48E+03	1.62E+02
SB125	1.30E+03	1.01E+03	7.87E+02	3.71E+02	1.06E+02	8.58E+00	4.60E-03	1.63E-08	2.03E-19	0.0	0.0
TE125M	9.90E+02	2.55E+02	1.92E+02	9.05E+01	2.58E+01	2.09E+00	1.12E-03	3.97E-09	4.96E-20	0.0	0.0
CS134	1.50E+07	1.07E+07	7.66E+06	2.80E+06	5.21E+05	1.81E+04	7.56E-01	3.81E-08	9.65E-23	0.0	0.0
CS137	2.00E+07	1.96E+07	1.91E+07	1.78E+07	1.59E+07	1.26E+07	6.30E+06	1.99E+06	1.97E+05	1.93E+02	1.86E-03
BA137M	1.90E+07	1.85E+07	1.81E+07	1.69E+07	1.50E+07	1.19E+07	5.96E+06	1.88E+06	1.86E+05	1.82E+02	1.76E-03
SM148	0.0	0.0	0.0	0.0	1.77E-25	6.36E-25	2.70E-24	6.63E-24	1.50E-23	3.98E-23	8.10E-23
EU152	2.00E+04	1.90E+04	1.81E+04	1.55E+04	1.20E+04	7.22E+03	1.57E+03	1.23E+02	7.51E-01	1.73E-07	1.49E-18
EU154	2.50E+04	2.31E+04	2.13E+04	1.67E+04	1.12E+04	4.99E+03	4.45E+02	7.92E+00	2.51E-03	7.96E-14	2.53E-31
EU155	4.20E+03	3.65E+03	3.18E+03	2.09E+03	1.04E+03	2.57E+02	3.88E+00	3.59E-08	3.06E-09	1.90E-27	0.0
GD152	2.50E-10	2.85E-10	3.18E-10	4.08E-10	5.30E-10	6.99E-10	8.97E-10	9.48E-10	9.52E-10	9.52E-10	9.52E-10
TOTAL	8.00E+11	7.57E+11	7.15E+11	6.05E+11	4.57E+11	2.61E+11	4.84E+10	2.93E+09	1.36E+07	2.36E+06	2.32E+06

FISSION PRODUCTS

 NUCLIDE THERMAL POWER, WATTS
 BASIS = GUSSBH. TYP II, 20/7

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	7.31E-04	6.91E-04	6.53E-04	5.52E-04	4.17E-04	2.38E-04	4.42E-05	2.67E-06	9.76E-09	4.77E-16	3.11E-28
SR 90	3.11E-07	3.03E-07	2.96E-07	2.76E-07	2.45E-07	1.93E-07	9.45E-08	2.88E-08	2.66E-09	2.11E-12	1.44E-17
Y 90	1.48E-06	1.45E-06	1.41E-06	1.32E-06	1.17E-06	9.22E-07	4.52E-07	1.37E-07	1.27E-08	1.01E-11	6.87E-17
NB 94	6.61E-07	6.61E-07	6.61E-07	6.61E-07	6.61E-07	6.61E-07	6.60E-07	6.59E-07	6.57E-07	6.50E-07	6.39E-07
NB 95	1.69E-09	1.26E-12	9.38E-16	3.89E-25	9.00E-41	0.0	0.0	0.0	0.0	0.0	0.0
RU106	6.09E-12	3.06E-12	1.54E-12	1.96E-13	6.29E-15	6.50E-18	7.18E-27	8.46E-42	0.0	0.0	0.0
RH106	9.85E-10	4.96E-10	2.49E-10	3.17E-11	1.02E-12	1.05E-15	1.16E-24	1.37E-39	0.0	0.0	0.0
AG108	2.72E-10	3.39E-10	3.37E-10	3.32E-10	3.23E-10	3.06E-10	2.59E-10	1.97E-10	1.14E-10	2.23E-11	1.45E-12
AG108M	9.99E-09	9.94E-09	9.89E-09	9.73E-09	9.46E-09	8.96E-09	7.61E-09	5.79E-09	3.36E-09	6.53E-10	4.27E-11
SB125	1.10E-10	8.55E-11	6.65E-11	3.13E-11	8.93E-12	7.25E-13	3.89E-16	1.37E-21	1.72E-32	0.0	0.0
TE125M	2.25E-11	5.80E-12	4.37E-12	2.05E-12	5.86E-13	4.76E-14	2.55E-17	9.02E-23	1.13E-33	0.0	0.0
CS134	4.13E-06	2.95E-06	2.11E-06	7.69E-07	1.43E-07	4.97E-09	2.08E-13	1.05E-20	2.65E-35	0.0	0.0
CS137	5.98E-07	5.84E-07	5.71E-07	5.33E-07	4.75E-07	3.77E-07	1.88E-07	5.94E-08	5.89E-09	5.76E-12	5.55E-17
BA137M	2.02E-06	1.96E-06	1.92E-06	1.79E-06	1.59E-06	1.27E-06	6.33E-07	1.99E-07	1.98E-08	1.94E-11	1.86E-16
SM148	0.0	0.0	0.0	0.0	5.70E-38	2.05E-37	8.71E-37	2.14E-36	4.84E-36	1.28E-35	2.61E-35
EU152	4.10E-09	3.90E-09	3.70E-09	3.18E-09	2.46E-09	1.48E-09	3.21E-10	2.51E-11	1.54E-13	3.54E-20	3.05E-31
EU154	6.05E-09	5.58E-09	5.15E-09	4.04E-09	2.70E-09	1.21E-09	1.08E-10	1.91E-12	6.06E-16	1.92E-26	6.12E-44
EU155	8.26E-11	7.18E-11	6.25E-11	4.11E-11	2.04E-11	5.05E-12	7.63E-14	7.05E-17	6.02E-23	3.74E-41	0.0
GD152	8.81E-23	1.00E-22	1.12E-22	1.44E-22	1.87E-22	2.46E-22	3.16E-22	3.34E-22	3.35E-22	3.35E-22	3.35E-22
TOTAL	7.40E-04	6.99E-04	6.60E-04	5.57E-04	4.21E-04	2.41E-04	4.62E-05	3.76E-06	7.11E-07	6.51E-07	6.39E-07

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

		RADIOACTIVITY ,BECQUEREL									
INITIAL		.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	2.73E+13	2.42E+13	2.15E+13	1.59E+13	1.09E+13	7.09E+12	4.69E+12	3.18E+12	1.51E+12	1.78E+11	2.64E+10
		THERMAL POWER ,WATTS									
INITIAL		.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	6.13E+00	5.36E+00	4.69E+00	3.15E+00	1.65E+00	4.88E-01	6.16E-02	3.79E-02	1.99E-02	5.62E-03	3.97E-03

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = CONT. STAHLBL., TYP II

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NA 22	1.20E+05	9.20E+04	7.05E+04	3.17E+04	8.37E+03	5.83E+02	1.98E-01	3.25E-07	8.82E-19	0.0	0.0
MN 54	3.40E+06	1.51E+06	6.73E+05	5.93E+04	1.03E+03	3.14E-01	8.78E-12	2.27E-29	0.0	0.0	0.0
FE 55	4.10E+08	3.14E+08	2.41E+08	1.08E+08	2.85E+07	1.99E+06	6.69E+02	1.09E-03	2.90E-15	0.0	0.0
CO 60	1.40E+09	1.23E+09	1.08E+09	7.26E+08	3.76E+08	1.01E+08	1.95E+06	2.72E+03	5.30E-03	3.90E-20	0.0
NI 59	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.10E+06	1.09E+06
NI 63	2.80E+08	2.78E+08	2.76E+08	2.70E+08	2.60E+08	2.41E+08	1.92E+08	1.32E+08	6.21E+07	6.48E+06	1.50E+05
ZN 65	3.60E+05	1.28E+05	4.52E+04	2.01E+03	1.12E+01	3.48E-04	1.04E-17	0.0	0.0	0.0	0.0
TOTAL	2.10E+09	1.82E+09	1.60E+09	1.10E+09	6.65E+08	3.45E+08	1.95E+08	1.33E+08	6.32E+07	7.58E+06	1.24E+06

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = CONT. STAHLBL., TYP II

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NA 22	4.59E-08	3.52E-08	2.70E-08	1.21E-08	3.20E-09	2.23E-10	7.56E-14	1.24E-19	3.37E-31	0.0	0.0
MN 54	4.58E-07	2.04E-07	9.06E-08	7.98E-09	1.39E-10	4.22E-14	1.18E-24	3.05E-42	0.0	0.0	0.0
FE 55	1.52E-05	1.17E-05	8.95E-06	4.02E-06	1.06E-06	7.38E-08	2.49E-11	4.05E-17	1.08E-28	0.0	0.0
CO 60	5.84E-04	5.12E-04	4.49E-04	3.02E-04	1.57E-04	4.21E-05	8.14E-07	1.14E-09	2.21E-15	1.62E-32	0.0
NI 59	1.89E-07	1.89E-07	1.89E-07	1.89E-07	1.89E-07	1.89E-07	1.89E-07	1.89E-07	1.89E-07	1.89E-07	1.88E-07
NI 63	3.01E-06	2.98E-06	2.96E-06	2.90E-06	2.79E-06	2.59E-06	2.06E-06	1.42E-06	6.67E-07	6.96E-08	1.61E-09
ZN 65	3.41E-08	1.21E-08	4.28E-09	1.90E-10	1.06E-12	3.29E-17	9.88E-31	0.0	0.0	0.0	0.0
TOTAL	6.03E-04	5.27E-04	4.61E-04	3.10E-04	1.61E-04	4.49E-05	3.07E-06	1.61E-06	8.56E-07	2.58E-07	1.89E-07

ACTINIDES

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = CONT. STAHLBL., TYP II

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL208	3.50E+05	3.66E+05	3.36E+05	2.54E+05	1.55E+05	5.52E+04	1.77E+03	1.01E+01	4.55E-04	1.52E-17	0.0
PB212	1.10E+06	1.02E+06	9.37E+05	7.09E+05	4.30E+05	1.54E+05	4.94E+03	2.80E+01	1.27E-03	4.23E-17	0.0
BI212	9.70E+05	1.02E+06	9.37E+05	7.09E+05	4.30E+05	1.54E+05	4.94E+03	2.80E+01	1.27E-03	4.23E-17	0.0
PO212	6.20E+05	6.54E+05	6.01E+05	4.54E+05	2.76E+05	9.86E+04	3.17E+03	1.80E+01	8.12E-04	2.71E-17	0.0
PO216	9.70E+05	1.02E+06	9.37E+05	7.09E+05	4.30E+05	1.54E+05	4.94E+03	2.80E+01	1.27E-03	4.23E-17	0.0
RN220	9.70E+05	1.02E+06	9.37E+05	7.09E+05	4.30E+05	1.54E+05	4.94E+03	2.80E+01	1.27E-03	4.23E-17	0.0
RA224	1.10E+06	1.02E+06	9.37E+05	7.09E+05	4.30E+05	1.54E+05	4.94E+03	2.80E+01	1.27E-03	4.23E-17	0.0
RA228	8.70E+05	7.85E+05	7.08E+05	5.19E+05	3.09E+05	1.10E+05	4.94E+03	2.80E+01	9.03E-04	3.02E-17	0.0
AC228	8.70E+05	7.85E+05	7.08E+05	5.19E+05	3.09E+05	1.10E+05	4.94E+03	2.80E+01	9.03E-04	3.02E-17	0.0
TH228	1.10E+06	1.02E+06	9.33E+05	7.07E+05	4.30E+05	1.54E+05	4.94E+03	2.80E+01	1.26E-03	4.22E-17	0.0
TOTAL	8.92E+06	8.71E+06	7.97E+06	6.00E+06	3.63E+06	1.30E+06	4.45E+04	2.52E+02	1.07E-02	3.56E-16	0.0

ACTINIDES

 NUCLIDE THERMAL POWER, WATTS
 BASIS = CONT. STAHLBL., TYP II

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL208	2.23E-07	2.33E-07	2.14E-07	1.62E-07	9.83E-08	3.51E-08	1.13E-09	6.40E-12	2.89E-16	9.66E-30	0.0
PB212	5.66E-08	5.25E-08	4.82E-08	3.65E-08	2.22E-08	7.92E-09	2.54E-10	1.44E-12	6.52E-17	2.18E-30	0.0
BI212	4.46E-07	4.69E-07	4.31E-07	3.26E-07	1.98E-07	7.07E-08	2.27E-09	1.29E-11	5.82E-16	1.94E-29	0.0
PO212	8.90E-07	9.38E-07	8.62E-07	6.52E-07	3.96E-07	1.42E-07	4.55E-09	2.58E-11	1.16E-15	3.89E-29	0.0
PO216	1.04E-06	1.09E-06	1.00E-06	7.58E-07	4.61E-07	1.65E-07	5.29E-09	3.00E-11	1.35E-15	4.53E-29	0.0
RN220	9.96E-07	1.05E-06	9.62E-07	7.27E-07	4.42E-07	1.58E-07	5.07E-09	2.88E-11	1.30E-15	4.34E-29	0.0
RA224	1.02E-06	9.47E-07	8.69E-07	6.57E-07	3.99E-07	1.43E-07	4.58E-09	2.60E-11	1.17E-15	3.92E-29	0.0
RA228	1.81E-09	1.63E-09	1.47E-09	1.08E-09	6.44E-10	2.29E-10	1.03E-11	5.84E-14	1.88E-18	6.29E-32	0.0
AC228	2.03E-07	1.83E-07	1.65E-07	1.21E-07	7.23E-08	2.57E-08	1.15E-09	6.55E-12	2.11E-16	7.05E-30	0.0
TH228	9.73E-07	8.99E-07	8.26E-07	6.25E-07	3.80E-07	1.36E-07	4.37E-09	2.48E-11	1.12E-15	3.74E-29	0.0
TOTAL	5.85E-06	5.86E-06	5.38E-06	4.07E-06	2.47E-06	8.83E-07	2.87E-08	1.63E-10	7.26E-15	2.43E-28	0.0

FISSION PRODUCTS

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = CONT. STAHLBL., TYP II

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
RUI06	1.90E+06	9.56E+05	4.81E+05	6.11E+04	1.96E+03	2.03E+00	2.24E-09	2.64E-24	0.0	0.0	0.0
RH106	1.90E+06	9.56E+05	4.81E+05	6.11E+04	1.96E+03	2.03E+00	2.24E-09	2.64E-24	0.0	0.0	0.0
AG108	8.20E+04	8.86E+04	8.81E+04	8.66E+04	8.43E+04	7.98E+04	6.78E+04	5.16E+04	2.99E+04	5.82E+03	3.80E+02
AG108M	1.00E+06	9.95E+05	9.90E+05	9.73E+05	9.47E+05	8.97E+05	7.62E+05	5.80E+05	3.36E+05	6.54E+04	4.27E+03
AG110	2.80E+00	1.50E+02	5.44E+01	2.61E+00	1.65E-02	6.57E-07	4.17E-20	0.0	0.0	0.0	0.0
AG110M	3.10E+04	1.13E+04	4.09E+03	1.96E+02	1.24E+00	4.94E-05	3.14E-18	0.0	0.0	0.0	0.0
SB126	6.90E+05	5.37E+05	4.18E+05	1.97E+05	5.61E+04	4.55E+03	2.44E+00	8.63E-06	1.08E-16	0.0	0.0
TR125M	4.70E+05	1.35E+05	1.02E+05	4.80E+04	1.37E+04	1.11E+03	5.96E-01	2.11E-06	2.63E-17	0.0	0.0
CS134	1.80E+07	1.29E+07	9.19E+06	3.35E+06	6.25E+05	2.17E+04	9.07E-01	4.57E-08	1.16E-22	0.0	0.0
CS137	1.40E+07	1.37E+07	1.34E+07	1.25E+07	1.11E+07	8.82E+06	4.41E+06	1.39E+06	1.38E+05	1.35E+02	1.30E-03
BA137M	1.40E+07	1.29E+07	1.27E+07	1.18E+07	1.05E+07	8.35E+06	4.17E+06	1.32E+06	1.31E+05	1.28E+02	1.23E-03
CE144	1.00E+05	4.11E+04	1.69E+04	1.17E+03	1.36E+01	1.85E-03	4.62E-15	2.14E-34	0.0	0.0	0.0
PR144	1.00E+05	4.11E+04	1.69E+04	1.17E+03	1.36E+01	1.85E-03	4.62E-15	2.14E-34	0.0	0.0	0.0
PR144M	1.30E+03	4.93E+02	2.02E+02	1.40E+01	1.63E-01	2.21E-05	5.55E-17	2.56E-36	0.0	0.0	0.0
ND144	3.20E-10	3.42E-10	3.51E-10	3.57E-10	3.57E-10	3.57E-10	3.57E-10	3.57E-10	3.57E-10	3.57E-10	3.57E-10
SM148	6.70E-24	8.26E-24	1.00E-23	1.65E-23	3.02E-23	6.50E-23	2.01E-22	4.56E-22	9.77E-22	2.54E-21	5.14E-21
EU152	1.20E+06	1.14E+06	1.08E+06	9.31E+05	7.21E+05	4.33E+05	9.40E+04	7.35E+03	4.50E+01	1.04E-05	8.93E-17
EU154	2.20E+06	2.03E+06	1.87E+06	1.47E+06	9.83E+05	4.39E+05	3.92E+04	6.97E+02	2.21E-01	7.00E-12	2.23E-29
EU155	6.00E+05	5.22E+05	4.54E+05	2.98E+05	1.48E+05	6.37E+04	5.55E+02	5.12E-01	4.37E-07	2.72E-25	0.0
GD152	1.80E-08	2.01E-08	2.21E-08	2.75E-08	3.48E-08	4.49E-08	5.68E-08	5.99E-08	6.01E-08	6.01E-08	6.01E-08
TOTAL	5.63E+07	4.70E+07	4.12E+07	3.18E+07	2.52E+07	1.91E+07	9.55E+06	3.34E+06	6.34E+05	7.14E+04	4.65E+03

FISSION PRODUCTS

 NUCLIDE THERMAL POWER, WATTS
 BASIS = CONT. STAHLBL., TYP II

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
RUI06	3.05E-09	1.53E-09	7.70E-10	9.79E-11	3.15E-12	3.25E-15	3.59E-24	4.23E-39	0.0	0.0	0.0
RH106	4.93E-07	2.48E-07	1.25E-07	1.58E-08	5.09E-10	5.26E-13	5.81E-22	6.85E-37	0.0	0.0	0.0
AG108	8.26E-09	8.92E-09	8.87E-09	8.73E-09	8.49E-09	8.04E-09	6.83E-09	5.20E-09	3.01E-09	5.86E-10	3.83E-11
AG108M	2.63E-07	2.62E-07	2.60E-07	2.56E-07	2.49E-07	2.36E-07	2.00E-07	1.52E-07	8.83E-08	1.72E-08	1.12E-09
AG110	5.44E-13	2.91E-11	1.06E-11	5.06E-13	3.20E-15	1.27E-19	8.10E-33	0.0	0.0	0.0	0.0
AG110M	1.40E-08	5.08E-09	1.85E-09	8.84E-11	5.58E-13	2.23E-17	1.42E-30	0.0	0.0	0.0	0.0
SB126	5.83E-08	4.54E-08	3.53E-08	1.66E-08	4.74E-09	3.85E-10	2.06E-13	7.29E-19	9.12E-30	0.0	0.0
TR125M	1.07E-08	3.06E-09	2.32E-09	1.09E-09	3.11E-10	2.53E-11	1.35E-14	4.79E-20	5.98E-31	0.0	0.0
CS134	4.95E-06	3.54E-06	2.53E-06	9.23E-07	1.72E-07	5.97E-09	2.49E-13	1.26E-20	3.19E-35	0.0	0.0
CS137	4.19E-07	4.09E-07	4.00E-07	3.73E-07	3.32E-07	2.64E-07	1.32E-07	4.16E-08	4.13E-09	4.03E-12	3.89E-17
BA137M	1.49E-06	1.37E-06	1.34E-06	1.25E-06	1.12E-06	8.86E-07	4.43E-07	1.40E-07	1.39E-08	1.35E-11	1.31E-16
CE144	1.79E-09	7.36E-10	3.02E-10	2.09E-11	2.44E-13	3.31E-17	8.29E-29	3.83E-48	0.0	0.0	0.0
PR144	1.99E-08	8.16E-09	3.35E-09	2.32E-10	2.70E-12	3.67E-16	9.18E-28	4.24E-47	0.0	0.0	0.0
PR144M	1.20E-11	4.56E-12	1.87E-12	1.29E-13	1.51E-15	2.05E-19	5.13E-31	2.37E-50	0.0	0.0	0.0
SM148	2.16E-36	2.67E-36	3.23E-36	5.32E-36	9.74E-36	2.10E-35	6.49E-35	1.47E-34	3.15E-34	8.19E-34	1.66E-33
EU152	2.46E-07	2.34E-07	2.22E-07	1.91E-07	1.48E-07	8.88E-08	1.93E-08	1.51E-09	9.23E-12	2.12E-18	1.83E-29
EU154	5.32E-07	4.91E-07	4.53E-07	3.56E-07	2.38E-07	1.06E-07	9.47E-09	1.68E-10	5.33E-14	1.69E-24	5.39E-42
EU155	1.18E-08	1.03E-08	8.92E-09	5.87E-09	2.92E-09	7.21E-10	1.09E-11	1.01E-14	8.60E-21	5.35E-39	0.0
GD152	6.34E-21	7.08E-21	7.78E-21	9.68E-21	1.23E-20	1.58E-20	2.00E-20	2.11E-20	2.12E-20	2.12E-20	2.12E-20
TOTAL	8.52E-06	6.64E-06	5.39E-06	3.40E-06	2.27E-06	1.60E-06	8.11E-07	3.40E-07	1.09E-07	1.78E-08	1.16E-09

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

		RADIOACTIVITY ,BECQUEREL										
		INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL		2.16E+09	1.88E+09	1.64E+09	1.14E+09	6.94E+08	3.65E+08	2.05E+08	1.36E+08	6.38E+07	7.65E+06	1.25E+06
		THERMAL POWER ,WATTS										
		INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL		6.17E-04	5.39E-04	4.72E-04	3.17E-04	1.65E-04	4.74E-05	3.91E-06	1.95E-06	9.65E-07	2.76E-07	1.90E-07

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = CONT. STAHLBL., TYP III

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	8.00E+06	8.00E+06	8.00E+06	8.00E+06	7.99E+06	7.98E+06	7.96E+06	7.91E+06	7.81E+06	7.53E+06	7.09E+06
NA 22	2.40E+05	1.84E+05	1.41E+05	6.34E+04	1.67E+04	1.17E+03	3.95E-01	6.51E-07	1.76E-18	0.0	0.0
CL 36	2.30E+04	2.30E+04	2.30E+04	2.30E+04	2.30E+04	2.30E+04	2.30E+04	2.30E+04	2.30E+04	2.30E+04	2.30E+04
AR 39	6.60E+05	6.59E+05	6.57E+05	6.52E+05	6.43E+05	6.27E+05	5.80E+05	5.10E+05	3.94E+05	1.82E+05	5.02E+04
CA 41	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.79E+05	1.79E+05
CA 45	4.10E+02	8.68E+01	1.84E+01	1.74E-01	7.37E-05	1.32E-11	7.69E-32	0.0	0.0	0.0	0.0
MN 54	1.10E+08	4.90E+07	2.18E+07	1.92E+06	3.34E+04	1.01E+01	2.84E-10	7.34E-28	0.0	0.0	0.0
FE 55	2.00E+10	1.53E+10	1.17E+10	5.28E+09	1.39E+09	9.69E+07	3.26E+04	5.32E-02	1.41E-13	0.0	0.0
CO 60	3.80E+09	3.33E+09	2.92E+09	1.97E+09	1.02E+09	2.74E+08	5.30E+06	7.39E+03	1.44E-02	1.06E-19	0.0
NI 59	7.60E+06	7.60E+06	7.60E+06	7.60E+06	7.60E+06	7.60E+06	7.60E+06	7.60E+06	7.59E+06	7.57E+06	7.54E+06
NI 63	7.40E+08	7.35E+08	7.29E+08	7.13E+08	6.87E+08	6.37E+08	5.08E+08	3.49E+08	1.64E+08	1.71E+07	3.96E+05
ZN 65	9.40E+06	3.33E+06	1.18E+06	5.24E+04	2.92E+02	9.08E-03	2.72E-16	0.0	0.0	0.0	0.0
TOTAL	2.47E+10	1.95E+10	1.54E+10	7.98E+09	3.12E+09	1.02E+09	5.30E+08	3.65E+08	1.80E+08	3.26E+07	1.53E+07

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = CONT. STAHLBL., TYP III

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
C 14	6.35E-08	6.35E-08	6.35E-08	6.34E-08	6.34E-08	6.33E-08	6.31E-08	6.27E-08	6.20E-08	5.97E-08	5.62E-08
NA 22	9.18E-08	7.03E-08	5.39E-08	2.42E-08	6.40E-09	4.46E-10	1.51E-13	2.49E-19	6.75E-31	0.0	0.0
CL 36	9.09E-10	9.09E-10	9.09E-10	9.09E-10	9.09E-10	9.09E-10	9.09E-10	9.09E-10	9.09E-10	9.08E-10	9.07E-10
AR 39	5.98E-08	5.96E-08	5.95E-08	5.90E-08	5.82E-08	5.68E-08	5.25E-08	4.62E-08	3.57E-08	1.65E-08	4.55E-09
CA 41	1.23E-08	1.23E-08	1.23E-08	1.23E-08	1.23E-08	1.23E-08	1.23E-08	1.23E-08	1.23E-08	1.23E-08	1.22E-08
CA 45	5.07E-12	1.07E-12	2.27E-13	2.15E-15	9.12E-19	1.64E-25	9.51E-46	0.0	0.0	0.0	0.0
MN 54	1.48E-05	6.59E-06	2.93E-06	2.58E-07	4.50E-09	1.37E-12	3.82E-23	9.87E-41	0.0	0.0	0.0
FE 55	7.44E-04	5.70E-04	4.36E-04	1.96E-04	5.17E-05	3.60E-06	1.21E-09	1.98E-15	5.25E-27	0.0	0.0
CO 60	1.58E-03	1.39E-03	1.22E-03	8.21E-04	4.25E-04	1.14E-04	2.21E-06	3.08E-09	5.99E-15	4.41E-32	0.0
NI 59	1.31E-06	1.31E-06	1.31E-06	1.31E-06	1.31E-06	1.31E-06	1.31E-06	1.31E-06	1.31E-06	1.30E-06	1.30E-06
NI 63	7.95E-06	7.89E-06	7.83E-06	7.65E-06	7.37E-06	6.84E-06	5.45E-06	3.74E-06	1.76E-06	1.84E-07	4.25E-09
ZN 65	8.91E-07	3.15E-07	1.12E-07	4.96E-09	2.77E-11	8.60E-16	2.58E-29	0.0	0.0	0.0	0.0
TOTAL	2.35E-03	1.97E-03	1.67E-03	1.03E-03	4.86E-04	1.26E-04	9.10E-06	5.17E-06	3.18E-06	1.58E-06	1.38E-06

ACTINIDES

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = CONT. STAHLBL., TYP III

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	3.20E-06	3.81E-06	4.45E-06	6.53E-06	1.05E-05	1.98E-05	5.56E-05	1.26E-04	2.75E-04	7.77E-04	1.54E-03
TL208	1.80E+04	2.31E+04	2.13E+04	1.63E+04	9.93E+03	3.56E+03	1.14E+02	6.63E-01	5.95E-03	3.30E-04	2.72E-06
TL209	2.70E-09	3.15E-09	3.69E-09	5.46E-09	8.88E-09	1.75E-08	5.84E-08	1.80E-07	6.49E-07	4.34E-06	2.01E-05
PB209	1.20E-07	1.43E-07	1.68E-07	2.48E-07	4.04E-07	7.97E-07	2.65E-06	8.16E-06	2.95E-05	1.97E-04	9.13E-04
PB210	1.20E-08	1.53E-08	1.94E-08	3.67E-08	9.14E-08	3.77E-07	4.83E-06	4.15E-05	3.39E-04	4.70E-03	2.17E-02
PB211	3.20E-06	3.82E-06	4.46E-06	6.55E-06	1.05E-05	1.99E-05	5.58E-05	1.26E-04	2.76E-04	7.79E-04	1.55E-03
PB212	6.90E+04	6.44E+04	5.94E+04	4.53E+04	2.77E+04	9.90E+03	3.18E+02	1.85E+00	1.66E-02	9.19E-04	7.57E-06
PB214	1.10E-07	1.34E-07	1.62E-07	2.74E-07	5.81E-07	1.84E-06	1.43E-05	8.31E-05	4.98E-04	4.70E-03	2.17E-02
BI210	1.20E-08	1.53E-08	1.94E-08	3.67E-08	9.14E-08	3.77E-07	4.83E-06	4.16E-05	3.39E-04	4.70E-03	2.17E-02
BI211	3.20E-06	3.82E-06	4.46E-06	6.55E-06	1.05E-05	1.99E-05	5.58E-05	1.26E-04	2.76E-04	7.79E-04	1.55E-03
BI212	5.10E+04	6.44E+04	6.94E+04	4.53E+04	2.77E+04	9.90E+03	3.18E+02	1.85E+00	1.66E-02	9.19E-04	7.57E-06
BI213	1.20E-07	1.43E-07	1.68E-07	2.48E-07	4.04E-07	7.97E-07	2.65E-06	8.16E-06	2.95E-05	1.97E-04	9.13E-04
BI214	1.10E-07	1.34E-07	1.62E-07	2.74E-07	5.81E-07	1.84E-06	1.43E-05	8.31E-05	4.98E-04	4.70E-03	2.17E-02
PO210	1.20E-08	1.25E-08	1.68E-08	3.10E-08	9.14E-08	3.77E-07	4.83E-06	4.16E-05	3.39E-04	4.70E-03	2.17E-02
PO211	9.60E-09	1.15E-08	1.34E-08	1.96E-08	3.15E-08	5.97E-08	1.67E-07	3.79E-07	8.28E-07	2.34E-06	4.64E-06
PO212	3.30E+04	4.13E+04	3.81E+04	2.90E+04	1.77E+04	6.35E+03	2.04E+02	1.18E+00	1.06E-02	5.89E-04	4.85E-06
PO213	1.20E-07	1.40E-07	1.64E-07	2.43E-07	3.95E-07	7.80E-07	2.59E-06	7.98E-06	2.89E-05	1.93E-04	8.93E-04
PO214	1.10E-07	1.34E-07	1.62E-07	2.74E-07	5.81E-07	1.84E-06	1.43E-05	8.31E-05	4.98E-04	4.70E-03	2.17E-02
PO215	3.20E-06	3.82E-06	4.46E-06	6.55E-06	1.05E-05	1.99E-05	5.58E-05	1.26E-04	2.76E-04	7.79E-04	1.55E-03
PO216	5.10E+04	6.44E+04	6.94E+04	4.53E+04	2.77E+04	9.90E+03	3.18E+02	1.85E+00	1.66E-02	9.19E-04	7.57E-06
PO218	1.10E-07	1.34E-07	1.62E-07	2.74E-07	5.81E-07	1.84E-06	1.43E-05	8.31E-05	4.98E-04	4.70E-03	2.17E-02
AT217	1.20E-07	1.43E-07	1.68E-07	2.48E-07	4.04E-07	7.97E-07	2.65E-06	8.16E-06	2.95E-05	1.97E-04	9.13E-04
RN219	3.20E-06	3.82E-06	4.46E-06	6.55E-06	1.05E-05	1.99E-05	5.58E-05	1.26E-04	2.76E-04	7.79E-04	1.55E-03
RN220	5.10E+04	6.44E+04	6.94E+04	4.53E+04	2.77E+04	9.90E+03	3.18E+02	1.85E+00	1.66E-02	9.19E-04	7.57E-06
RN222	1.10E-07	1.34E-07	1.62E-07	2.74E-07	5.81E-07	1.84E-06	1.43E-05	8.31E-05	4.98E-04	4.70E-03	2.17E-02
FR221	1.20E-07	1.43E-07	1.68E-07	2.48E-07	4.04E-07	7.97E-07	2.65E-06	8.16E-06	2.95E-05	1.97E-04	9.13E-04
FR223	4.50E-08	5.34E-08	6.24E-08	9.15E-08	1.47E-07	2.78E-07	7.80E-07	1.77E-06	3.86E-06	1.09E-05	2.17E-05
RA223	3.20E-06	3.82E-06	4.46E-06	6.55E-06	1.05E-05	1.99E-05	5.58E-05	1.26E-04	2.76E-04	7.79E-04	1.55E-03
RA224	6.90E+04	6.44E+04	5.94E+04	4.53E+04	2.77E+04	9.90E+03	3.18E+02	1.85E+00	1.66E-02	9.19E-04	7.57E-06
RA225	1.20E-07	1.43E-07	1.68E-07	2.48E-07	4.04E-07	7.97E-07	2.65E-06	8.16E-06	2.95E-05	1.97E-04	9.13E-04
RA226	1.10E-07	1.34E-07	1.62E-07	2.74E-07	5.81E-07	1.84E-06	1.43E-05	8.31E-05	4.98E-04	4.70E-03	2.17E-02
RA228	5.60E+04	5.05E+04	4.56E+04	3.34E+04	1.99E+04	7.08E+03	3.18E+02	1.80E+00	5.81E-05	4.94E-08	1.01E-07
AC225	1.20E-07	1.43E-07	1.68E-07	2.48E-07	4.04E-07	7.97E-07	2.65E-06	8.16E-06	2.95E-05	1.97E-04	9.13E-04
AC227	3.20E-06	3.81E-06	4.46E-06	6.54E-06	1.05E-05	1.99E-05	5.57E-05	1.26E-04	2.76E-04	7.79E-04	1.55E-03
AC228	5.60E+04	5.05E+04	4.56E+04	3.34E+04	1.99E+04	7.08E+03	3.18E+02	1.80E+00	5.82E-05	4.94E-08	1.01E-07
TH227	3.20E-06	3.77E-06	4.40E-06	6.46E-06	1.04E-05	1.96E-05	5.50E-05	1.25E-04	2.72E-04	7.68E-04	1.53E-03
TH228	6.90E+04	6.42E+04	6.92E+04	4.52E+04	2.76E+04	9.90E+03	3.18E+02	1.85E+00	1.66E-02	9.19E-04	7.57E-06
TH229	1.20E-07	1.43E-07	1.68E-07	2.48E-07	4.04E-07	7.97E-07	2.65E-06	8.16E-06	2.95E-05	1.97E-04	9.13E-04
TH230	5.10E-05	5.97E-05	6.94E-05	1.05E-04	1.84E-04	4.17E-04	1.64E-03	6.05E-03	1.52E-02	5.51E-02	1.26E-01
TH231	7.10E-02	7.10E-02	7.10E-02	7.10E-02	7.11E-02	7.11E-02	7.12E-02	7.14E-02	7.18E-02	7.29E-02	7.47E-02
TH232	9.30E-10	1.02E-09	1.12E-09	1.40E-09	1.87E-09	2.81E-09	6.63E-09	1.04E-08	1.99E-08	4.94E-08	1.01E-07
TH234	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00
PA231	2.20E-05	2.35E-05	2.50E-05	2.95E-05	3.71E-05	5.21E-05	9.72E-05	1.72E-04	3.23E-04	7.79E-04	1.55E-03
PA233	2.60E+00	2.60E+00	2.61E+00	2.62E+00	2.64E+00	2.70E+00	2.90E+00	3.26E+00	3.92E+00	5.37E+00	6.66E+00
PA234M	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00
PA234	2.80E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03
U 232	1.10E-01	1.09E-01	1.08E-01	1.05E-01	9.99E-02	9.08E-02	6.80E-02	4.20E-02	1.61E-02	8.94E-04	7.27E-06
U 233	2.40E-04	2.53E-04	2.65E-04	3.01E-04	3.58E-04	4.75E-04	8.42E-04	1.52E-03	3.09E-03	9.25E-03	2.25E-02
U 234	9.00E-01	1.02E+00	1.14E+00	1.48E+00	2.05E+00	3.11E+00	5.83E+00	9.15E+00	1.29E+01	1.57E+01	1.60E+01

U 235	7.10E-02	7.10E-02	7.10E-02	7.10E-02	7.11E-02	7.11E-02	7.12E-02	7.14E-02	7.18E-02	7.29E-02	7.47E-02
U 236	1.90E+00	1.90E+00	1.90E+00	1.90E+00	1.90E+00	1.91E+00	1.91E+00	1.93E+00	1.95E+00	2.03E+00	2.15E+00
U 237	4.60E+00	1.15E+01	1.09E+01	9.45E+00	7.43E+00	4.59E+00	1.08E+00	9.77E-02	7.94E-04	4.26E-10	1.61E-20
U 238	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00
U 240	1.70E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06
NP237	2.60E+00	2.60E+00	2.61E+00	2.62E+00	2.64E+00	2.70E+00	2.90E+00	3.26E+00	3.92E+00	5.37E+00	6.66E+00
NP238	9.80E-02	1.94E-01	1.93E-01	1.91E-01	1.86E-01	1.78E-01	1.55E-01	1.24E-01	7.84E-02	2.00E-02	2.04E-03
NP239	1.10E+02	2.10E+02	2.10E+02	2.10E+02	2.10E+02	2.10E+02	2.09E+02	2.08E+02	2.06E+02	2.00E+02	1.91E+02
NP240M	1.70E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06
PU238	4.20E+04	4.17E+04	4.14E+04	4.05E+04	3.89E+04	3.59E+04	2.84E+04	1.91E+04	8.69E+03	8.17E+02	1.64E+01
PU239	3.80E+03	3.80E+03	3.80E+03	3.80E+03	3.80E+03	3.80E+03	3.80E+03	3.79E+03	3.78E+03	3.75E+03	3.70E+03
PU240	8.80E+03	8.81E+03	8.81E+03	8.81E+03	8.82E+03	8.82E+03	8.82E+03	8.78E+03	8.69E+03	8.42E+03	7.98E+03
PU241	4.80E+05	4.58E+05	4.36E+05	3.78E+05	2.97E+05	1.83E+05	4.33E+04	3.90E+03	3.17E+01	1.70E-05	6.03E-16
PU242	1.80E+01	1.80E+01	1.80E+01	1.80E+01	1.80E+01	1.80E+01	1.80E+01	1.80E+01	1.80E+01	1.80E+01	1.80E+01
PU244	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06
AM241	9.30E+03	1.00E+04	1.07E+04	1.26E+04	1.52E+04	1.87E+04	2.24E+04	2.19E+04	1.88E+04	1.16E+04	5.20E+03
AM242M	3.90E+01	3.88E+01	3.87E+01	3.81E+01	3.73E+01	3.66E+01	3.11E+01	2.47E+01	1.57E+01	3.99E+00	4.09E-01
AM242	2.00E+01	3.86E+01	3.85E+01	3.79E+01	3.71E+01	3.54E+01	3.09E+01	2.46E+01	1.56E+01	3.97E+00	4.07E-01
AM243	2.10E+02	2.10E+02	2.10E+02	2.10E+02	2.10E+02	2.10E+02	2.09E+02	2.08E+02	2.06E+02	2.00E+02	1.91E+02
CM242	1.20E+04	2.57E+03	5.70E+02	3.66E+01	3.07E+01	2.93E+01	2.56E+01	2.04E+01	1.29E+01	3.29E+00	3.36E-01
CM243	1.10E+02	1.07E+02	1.05E+02	9.74E+01	8.63E+01	6.77E+01	3.26E+01	9.67E+00	8.50E-01	5.78E-04	3.03E-09
CM244	2.50E+04	2.41E+04	2.32E+04	2.07E+04	1.71E+04	1.16E+04	3.69E+03	5.45E+02	1.19E+01	1.23E-04	6.02E-13
TOTAL	1.10E+06	1.10E+06	1.03E+06	8.48E+05	6.15E+05	3.46E+05	1.14E+05	5.86E+04	4.05E+04	2.50E+04	1.73E+04

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = CONT. STAHLBL., TYP III

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	2.54E-19	3.02E-19	3.53E-19	5.18E-19	8.31E-19	1.58E-18	4.41E-18	1.00E-17	2.18E-17	6.16E-17	1.22E-16
TL208	1.15E-08	1.47E-08	1.36E-08	1.03E-08	6.32E-09	2.26E-09	7.27E-11	4.22E-13	3.78E-15	2.10E-16	1.73E-18
TL209	1.21E-21	1.42E-21	1.66E-21	2.45E-21	3.99E-21	7.87E-21	2.62E-20	8.07E-20	2.92E-19	1.95E-18	9.02E-18
PB209	3.73E-21	4.46E-21	6.22E-21	7.71E-21	1.26E-20	2.48E-20	8.24E-20	2.54E-19	9.17E-19	6.12E-18	2.84E-17
PB210	7.52E-23	9.61E-23	1.21E-22	2.30E-22	6.72E-22	2.36E-21	3.03E-20	2.60E-19	2.12E-18	2.95E-17	1.36E-16
PB211	2.59E-19	3.09E-19	3.62E-19	5.30E-19	8.51E-19	1.61E-18	4.52E-18	1.02E-17	2.24E-17	6.31E-17	1.25E-16
PB212	3.55E-09	3.32E-09	3.06E-09	2.33E-09	1.42E-09	5.10E-10	1.64E-11	9.51E-14	8.53E-16	4.73E-17	3.89E-19
PB214	9.49E-21	1.15E-20	1.39E-20	2.36E-20	5.01E-20	1.59E-19	1.23E-18	7.17E-18	4.30E-17	4.05E-16	1.87E-15
BI210	7.48E-22	9.57E-22	1.21E-21	2.29E-21	6.70E-21	2.35E-20	3.01E-19	2.59E-18	2.11E-17	2.93E-16	1.35E-15
BI211	3.45E-18	4.12E-18	4.81E-18	7.06E-18	1.13E-17	2.15E-17	6.01E-17	1.36E-16	2.98E-16	8.40E-16	1.67E-15
BI212	2.35E-08	2.96E-08	2.73E-08	2.08E-08	1.27E-08	4.55E-09	1.46E-10	8.49E-13	7.62E-15	4.22E-16	3.48E-18
BI213	1.36E-20	1.63E-20	1.91E-20	2.82E-20	4.59E-20	9.06E-20	3.01E-19	9.28E-19	3.35E-18	2.24E-17	1.04E-16
BI214	3.81E-20	4.64E-20	5.60E-20	9.48E-20	2.01E-19	6.39E-19	4.96E-18	2.88E-17	1.73E-16	1.63E-15	7.51E-15
PO210	1.04E-20	1.08E-20	1.46E-20	2.69E-20	7.92E-20	3.27E-19	4.19E-18	3.60E-17	2.94E-16	4.07E-15	1.88E-14
PO211	1.17E-20	1.39E-20	1.63E-20	2.39E-20	3.83E-20	7.27E-20	2.04E-19	4.61E-19	1.01E-18	2.84E-18	5.65E-18
PO212	4.74E-08	5.92E-08	5.47E-08	4.17E-08	5.47E-08	9.11E-09	2.93E-10	1.70E-12	1.52E-14	8.45E-16	6.96E-18
PO213	1.64E-19	1.92E-19	2.25E-19	3.32E-19	5.40E-19	1.07E-18	3.55E-18	1.09E-17	3.95E-17	2.64E-16	1.22E-15
PO214	1.38E-19	1.68E-19	2.03E-19	3.43E-19	7.29E-19	2.31E-18	1.80E-17	1.04E-16	6.25E-16	5.90E-15	2.72E-14
PO215	3.86E-18	4.61E-18	5.38E-18	7.90E-18	1.27E-17	2.40E-17	6.72E-17	1.52E-16	3.33E-16	9.39E-16	1.87E-15
PO216	5.46E-08	6.89E-08	6.36E-08	4.85E-08	2.96E-08	1.06E-08	3.40E-10	1.98E-12	1.77E-14	9.83E-16	8.09E-18
PO218	1.08E-19	1.31E-19	1.58E-19	2.68E-19	5.69E-19	1.81E-18	1.40E-17	8.14E-17	4.88E-16	4.60E-15	2.12E-14
AT217	1.38E-19	1.65E-19	1.94E-19	2.86E-19	4.66E-19	9.19E-19	3.06E-18	9.42E-18	3.40E-17	2.27E-16	1.05E-15
RN219	3.56E-18	4.25E-18	4.97E-18	7.29E-18	1.17E-17	2.22E-17	6.21E-17	1.41E-16	3.07E-16	8.67E-16	1.72E-15
RN220	5.24E-08	6.61E-08	6.10E-08	4.65E-08	2.84E-08	1.02E-08	3.27E-10	1.90E-12	1.70E-14	9.43E-16	7.76E-18
RN222	9.86E-20	1.20E-19	1.45E-19	2.45E-19	5.20E-19	1.65E-18	1.28E-17	7.45E-17	4.46E-16	4.21E-15	1.94E-14
FR221	1.24E-19	1.48E-19	1.74E-19	2.57E-19	4.18E-19	8.25E-19	2.74E-18	8.45E-18	3.05E-17	2.04E-16	9.45E-16
FR223	3.16E-21	3.75E-21	4.38E-21	6.42E-21	1.03E-20	1.95E-20	5.48E-20	1.24E-19	2.71E-19	7.66E-19	1.52E-18
RA223	3.07E-18	3.66E-18	4.28E-18	6.27E-18	1.01E-17	1.91E-17	5.34E-17	1.21E-16	2.64E-16	7.46E-16	1.48E-15
RA224	6.40E-08	5.98E-08	5.51E-08	4.20E-08	2.57E-08	9.19E-09	2.95E-10	1.71E-12	1.54E-14	8.52E-16	7.02E-18
RA225	2.28E-21	2.72E-21	3.18E-21	4.70E-21	7.65E-21	1.51E-20	5.03E-20	1.55E-19	5.59E-19	3.73E-18	1.73E-17
RA226	8.59E-20	1.05E-19	1.26E-19	2.14E-19	4.54E-19	1.44E-18	1.12E-17	6.49E-17	3.89E-16	3.67E-15	1.69E-14
RA228	1.17E-10	1.05E-10	9.49E-11	6.96E-11	4.15E-11	1.47E-11	6.62E-13	3.76E-15	1.21E-19	1.03E-22	2.10E-22
AC225	1.14E-19	1.36E-19	1.60E-19	2.36E-19	3.84E-19	7.58E-19	2.52E-18	7.76E-18	2.81E-17	1.87E-16	8.68E-16
AC227	4.19E-20	4.99E-20	5.83E-20	8.56E-20	1.37E-19	2.60E-19	7.30E-19	1.65E-18	3.61E-18	1.02E-17	2.03E-17
AC228	1.31E-08	1.18E-08	1.06E-08	7.80E-09	4.65E-09	1.65E-09	7.43E-11	4.22E-13	1.36E-17	1.15E-20	2.36E-20
TH227	3.15E-18	3.71E-18	4.33E-18	6.36E-18	1.02E-17	1.93E-17	5.41E-17	1.23E-16	2.68E-16	7.56E-16	1.50E-15
TH228	6.10E-08	5.68E-08	5.24E-08	4.00E-08	2.44E-08	8.76E-09	2.81E-10	1.63E-12	1.47E-14	8.12E-16	6.69E-18
TH229	9.94E-20	1.19E-19	1.39E-19	2.05E-19	3.34E-19	6.60E-19	2.20E-18	6.76E-18	2.44E-17	1.63E-16	7.56E-16
TH230	3.90E-17	4.56E-17	5.30E-17	8.01E-17	1.41E-16	3.19E-16	1.25E-15	3.86E-15	1.16E-14	4.21E-14	9.66E-14
TH231	1.08E-15	1.08E-15	1.08E-15	1.08E-15	1.08E-15	1.08E-15	1.08E-15	1.08E-15	1.09E-15	1.11E-15	1.13E-15
TH232	6.08E-22	6.70E-22	7.31E-22	9.15E-22	1.22E-21	1.84E-21	3.68E-21	6.78E-21	1.30E-20	3.23E-20	6.60E-20
TH234	2.30E-14	2.30E-14	2.30E-14	2.30E-14	2.30E-14	2.30E-14	2.30E-14	2.30E-14	2.30E-14	2.30E-14	2.30E-14
PA231	1.82E-17	1.94E-17	2.06E-17	2.44E-17	3.06E-17	4.30E-17	8.02E-17	1.42E-16	2.67E-16	6.42E-16	1.28E-15
PA233	1.60E-13	1.60E-13	1.60E-13	1.61E-13	1.62E-13	1.65E-13	1.78E-13	2.00E-13	2.41E-13	3.29E-13	4.08E-13
PA234M	2.81E-13	2.81E-13	2.81E-13	2.81E-13	2.81E-13	2.81E-13	2.81E-13	2.81E-13	2.81E-13	2.81E-13	2.81E-13
PA234	1.09E-15	1.06E-15	1.06E-15	1.06E-15	1.06E-15	1.06E-15	1.06E-15	1.06E-15	1.06E-15	1.06E-15	1.06E-15
U 232	9.54E-14	9.45E-14	9.36E-14	9.10E-14	8.67E-14	7.87E-14	5.90E-14	3.65E-14	1.39E-14	7.76E-16	6.30E-18
U 233	1.89E-16	1.99E-16	2.09E-16	2.37E-16	2.82E-16	3.73E-16	6.62E-16	1.19E-15	2.43E-15	7.27E-15	1.77E-14
U 234	7.00E-13	7.93E-13	8.84E-13	1.16E-12	1.59E-12	2.42E-12	4.53E-12	7.12E-12	1.00E-11	1.22E-11	1.24E-11

U 235	5.32E-14	5.32E-14	5.33E-14	5.33E-14	5.33E-14	5.33E-14	5.34E-14	5.35E-14	5.38E-14	5.46E-14	5.60E-14
U 236	1.39E-12	1.39E-12	1.39E-12	1.39E-12	1.39E-12	1.40E-12	1.40E-12	1.41E-12	1.43E-12	1.49E-12	1.57E-12
U 237	2.35E-13	5.86E-13	5.58E-13	4.83E-13	3.80E-13	2.35E-13	5.54E-14	5.00E-15	4.06E-17	2.18E-23	7.72E-34
U 238	1.44E-12	1.44E-12	1.44E-12	1.44E-12	1.44E-12	1.44E-12	1.44E-12	1.44E-12	1.44E-12	1.44E-12	1.44E-12
U 240	3.77E-20	7.09E-20	7.09E-20	7.09E-20	7.09E-20	7.09E-20	7.09E-20	7.09E-20	7.09E-20	7.09E-20	7.09E-20
NP237	2.07E-12	2.07E-12	2.07E-12	2.08E-12	2.10E-12	2.14E-12	2.30E-12	2.59E-12	3.11E-12	4.26E-12	5.29E-12
NP238	1.27E-14	2.51E-14	2.50E-14	2.47E-14	2.41E-14	2.31E-14	2.01E-14	1.60E-14	1.01E-14	2.58E-15	2.65E-16
NP239	7.19E-12	1.37E-11	1.37E-11	1.37E-11	1.37E-11	1.37E-11	1.37E-11	1.36E-11	1.35E-11	1.31E-11	1.25E-11
NP240M	2.66E-19	5.01E-19	5.01E-19	5.01E-19	5.01E-19	5.01E-19	5.01E-19	5.01E-19	5.01E-19	5.01E-19	5.01E-19
PU238	3.76E-08	3.74E-08	3.71E-08	3.62E-08	3.48E-08	3.22E-08	2.54E-08	1.71E-08	7.78E-09	7.32E-10	1.47E-11
PU239	3.19E-09	3.19E-09	3.19E-09	3.19E-09	3.19E-09	3.19E-09	3.19E-09	3.19E-09	3.18E-09	3.15E-09	3.11E-09
PU240	7.41E-09	7.41E-09	7.42E-09	7.42E-09	7.42E-09	7.43E-09	7.42E-09	7.39E-09	7.31E-09	7.09E-09	6.72E-09
PU241	4.00E-10	3.81E-10	3.63E-10	3.14E-10	2.47E-10	1.53E-10	3.61E-11	3.25E-12	2.64E-14	1.42E-20	5.02E-31
PU242	1.44E-11	1.44E-11	1.44E-11	1.44E-11	1.44E-11	1.44E-11	1.44E-11	1.44E-11	1.44E-11	1.44E-11	1.44E-11
PU244	2.51E-18	2.51E-18	2.51E-18	2.51E-18	2.51E-18	2.51E-18	2.51E-18	2.51E-18	2.51E-18	2.51E-18	2.51E-18
AM241	8.40E-09	9.07E-09	9.70E-09	1.14E-08	1.37E-08	1.69E-08	2.02E-08	1.98E-08	1.69E-08	1.05E-08	4.70E-09
AM242M	4.16E-13	4.14E-13	4.13E-13	4.07E-13	3.98E-13	3.80E-13	3.31E-13	2.64E-13	1.67E-13	4.26E-14	4.36E-15
AM242	6.28E-13	1.21E-12	1.21E-12	1.19E-12	1.16E-12	1.11E-12	9.71E-13	7.73E-13	4.90E-13	1.25E-13	1.28E-14
AM243	1.83E-10	1.83E-10	1.83E-10	1.83E-10	1.83E-10	1.83E-10	1.82E-10	1.81E-10	1.80E-10	1.75E-10	1.67E-10
CM242	1.20E-08	2.56E-09	5.68E-10	3.64E-11	3.06E-11	2.92E-11	2.55E-11	2.03E-11	1.28E-11	3.27E-12	3.35E-13
CM243	1.09E-10	1.06E-10	1.04E-10	9.66E-11	8.56E-11	6.71E-11	3.24E-11	9.59E-12	8.43E-13	5.73E-16	3.01E-21
CM244	2.36E-08	2.28E-08	2.19E-08	1.95E-08	1.61E-08	1.10E-08	3.49E-09	5.15E-10	1.12E-11	1.16E-16	5.69E-25
TOTAL	4.24E-07	4.53E-07	4.22E-07	3.39E-07	2.35E-07	1.28E-07	6.19E-08	4.83E-08	3.55E-08	2.17E-08	1.48E-08

FISSION PRODUCTS

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = CONT. STAHLBL., TYP III

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	2.60E+02	2.46E+02	2.32E+02	1.96E+02	1.48E+02	8.47E+01	1.57E+01	9.61E-01	3.47E-03	1.70E-10	1.11E-22
SR 90	1.80E+08	1.76E+08	1.72E+08	1.60E+08	1.42E+08	1.12E+08	5.48E+07	1.67E+07	1.54E+06	1.22E+03	8.33E-03
Y 90	1.80E+08	1.76E+08	1.72E+08	1.60E+08	1.42E+08	1.12E+08	5.48E+07	1.67E+07	1.54E+06	1.23E+03	8.34E-03
ZR 93	9.50E+02	9.50E+02	9.50E+02	9.50E+02	9.50E+02	9.50E+02	9.50E+02	9.50E+02	9.50E+02	9.50E+02	9.50E+02
NB 93M	2.10E+06	2.00E+06	1.90E+06	1.63E+06	1.26E+06	7.59E+05	1.65E+05	1.38E+04	9.82E+02	9.03E+02	9.02E+02
NB 94	4.70E+02	4.70E+02	4.70E+02	4.70E+02	4.70E+02	4.70E+02	4.69E+02	4.69E+02	4.67E+02	4.62E+02	4.54E+02
TC 99	5.30E+05	5.30E+05	5.30E+05	5.30E+05	5.30E+05	5.30E+05	5.30E+05	5.30E+05	5.30E+05	5.29E+05	5.29E+05
RUI06	2.70E+06	1.36E+06	6.83E+05	8.68E+04	2.79E+03	2.88E+00	3.18E-09	3.75E-24	0.0	0.0	0.0
RH106	2.70E+06	1.36E+06	6.83E+05	8.68E+04	2.79E+03	2.88E+00	3.18E-09	3.75E-24	0.0	0.0	0.0
PD107	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00	4.00E+00
AG108	1.00E+04	1.24E+04	1.23E+04	1.21E+04	1.18E+04	1.12E+04	9.49E+03	7.22E+03	4.19E+03	8.14E+02	5.32E+01
AG108M	1.40E+05	1.39E+05	1.39E+05	1.36E+05	1.33E+05	1.26E+05	1.07E+05	8.12E+04	4.70E+04	9.15E+03	5.98E+02
AG110	1.40E+02	2.42E+05	8.77E+04	4.20E+03	2.65E+01	1.06E-03	6.73E-17	0.0	0.0	0.0	0.0
AG110M	5.00E+07	1.82E+07	6.60E+06	3.16E+05	2.00E+03	7.96E-02	5.06E-15	0.0	0.0	0.0	0.0
SN126	2.10E+03	2.10E+03	2.10E+03	2.10E+03	2.10E+03	2.10E+03	2.10E+03	2.10E+03	2.10E+03	2.09E+03	2.09E+03
SB125	6.90E+07	5.37E+07	4.18E+07	1.97E+07	5.61E+06	4.55E+05	2.44E+02	8.63E-04	1.08E-14	0.0	0.0
SB126	1.50E+02	2.94E+02	2.94E+02	2.94E+02	2.94E+02	2.94E+02	2.94E+02	2.94E+02	2.94E+02	2.93E+02	2.92E+02
SB126M	1.10E+03	2.10E+03	2.10E+03	2.10E+03	2.10E+03	2.10E+03	2.10E+03	2.10E+03	2.10E+03	2.09E+03	2.09E+03
TE125M	6.40E+07	1.37E+07	1.02E+07	4.80E+06	1.37E+06	1.11E+05	5.96E+01	2.11E-04	2.63E-15	0.0	0.0
CS134	7.80E+08	5.58E+08	3.98E+08	1.45E+08	2.71E+07	9.40E+05	3.93E+01	1.98E-06	5.02E-21	0.0	0.0
CS135	1.70E+04	1.70E+04	1.70E+04	1.70E+04	1.70E+04	1.70E+04	1.70E+04	1.70E+04	1.70E+04	1.70E+04	1.70E+04
CS137	3.60E+09	3.52E+09	3.44E+09	3.21E+09	2.86E+09	2.27E+09	1.13E+09	3.57E+08	3.55E+07	3.47E+04	3.34E-01
BA137M	3.40E+09	3.33E+09	3.25E+09	3.04E+09	2.70E+09	2.15E+09	1.07E+09	3.38E+08	3.36E+07	3.28E+04	3.16E-01
CE144	3.60E+07	1.48E+07	6.07E+06	4.20E+05	4.89E+03	6.64E-01	1.66E-12	7.69E-32	0.0	0.0	0.0
PR144	3.60E+07	1.48E+07	6.07E+06	4.20E+05	4.89E+03	6.64E-01	1.66E-12	7.69E-32	0.0	0.0	0.0
PR144M	4.20E+05	1.77E+05	7.28E+04	5.04E+03	5.87E+01	7.97E-03	2.00E-14	9.22E-34	0.0	0.0	0.0
ND144	1.40E-08	2.19E-08	2.51E-08	2.72E-08	2.74E-08	2.74E-08	2.74E-08	2.74E-08	2.74E-08	2.74E-08	2.74E-08
PM147	1.30E+07	9.99E+06	7.67E+06	3.47E+06	9.27E+05	6.60E+04	2.39E+01	4.39E-05	1.48E-16	0.0	0.0
SM147	2.90E-04	3.64E-04	4.21E-04	5.24E-04	5.86E-04	6.07E-04	6.09E-04	6.09E-04	6.09E-04	6.09E-04	6.09E-04
SM148	6.30E-22	7.87E-22	9.64E-22	1.60E-21	2.96E-21	6.52E-21	2.06E-20	4.72E-20	1.01E-19	2.64E-19	5.35E-19
EUI52	1.30E+08	1.24E+08	1.17E+08	1.01E+08	7.81E+07	4.69E+07	1.02E+07	7.97E+05	4.88E+03	1.12E-03	9.68E-15
EUI54	2.00E+07	1.85E+07	1.70E+07	1.34E+07	8.94E+06	3.99E+06	3.56E+05	6.34E+03	2.01E+00	6.37E-11	2.03E-28
EUI55	1.20E+06	1.04E+06	9.08E+05	5.97E+05	2.97E+05	7.34E+04	1.11E+03	1.02E+00	8.75E-07	5.44E-25	0.0
GD152	1.70E-06	1.93E-06	2.14E-06	2.73E-06	3.52E-06	4.62E-06	5.91E-06	6.24E-06	6.26E-06	6.26E-06	6.26E-06
TOTAL	8.57E+09	8.03E+09	7.65E+09	6.86E+09	5.97E+09	4.69E+09	2.33E+09	7.30E+08	7.27E+07	6.33E+05	5.53E+05

FISSION PRODUCTS

NUCLIDE THERMAL POWER, WATTS
BASIS = CONT. STAHLBL., TYP III

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	2.38E-13	2.25E-13	2.12E-13	1.79E-13	1.36E-13	7.73E-14	1.44E-14	8.68E-16	3.17E-18	1.65E-25	1.01E-37
SR 90	5.65E-06	5.52E-06	5.39E-06	5.02E-06	4.45E-06	3.51E-06	1.72E-06	5.23E-07	4.84E-08	3.84E-11	2.61E-16
Y 90	2.70E-05	2.63E-05	2.57E-05	2.40E-05	2.13E-05	1.68E-05	8.21E-06	2.50E-06	2.31E-07	1.84E-10	1.25E-15
ZR 93	2.98E-12	2.98E-12	2.98E-12	2.98E-12	2.98E-12	2.98E-12	2.98E-12	2.98E-12	2.98E-12	2.98E-12	2.98E-12
NB 93M	1.01E-08	9.56E-09	9.09E-09	7.80E-09	6.05E-09	3.64E-09	7.92E-10	6.59E-11	4.70E-12	4.32E-12	4.32E-12
NB 94	1.29E-10	1.29E-10	1.29E-10	1.29E-10	1.29E-10	1.29E-10	1.29E-10	1.29E-10	1.29E-10	1.29E-10	1.29E-10
TC 99	7.19E-09	7.19E-09	7.19E-09	7.19E-09	7.19E-09	7.19E-09	7.19E-09	7.19E-09	7.19E-09	7.19E-09	7.19E-09
RU106	4.33E-09	2.18E-09	1.09E-09	1.39E-10	4.47E-12	4.62E-15	5.10E-24	6.01E-39	0.0	0.0	0.0
RH106	7.00E-07	3.52E-07	1.77E-07	2.25E-08	7.24E-10	7.48E-13	8.25E-22	9.73E-37	0.0	0.0	0.0
PD107	6.41E-15	6.41E-15	6.41E-15	6.41E-15	6.41E-15	6.41E-15	6.41E-15	6.41E-15	6.41E-15	6.41E-15	6.41E-15
AG108	1.01E-09	1.25E-09	1.24E-09	1.22E-09	1.19E-09	1.13E-09	9.56E-10	7.27E-10	4.22E-10	8.20E-11	5.36E-12
AG108M	3.68E-08	3.66E-08	3.64E-08	3.58E-08	3.49E-08	3.30E-08	2.80E-08	2.13E-08	1.24E-08	2.41E-09	1.57E-10
AG110	2.72E-11	4.69E-08	1.70E-08	8.16E-10	5.15E-12	2.06E-16	1.31E-29	0.0	0.0	0.0	0.0
AG110M	2.26E-05	8.20E-06	2.98E-06	1.43E-07	9.01E-10	3.59E-14	2.28E-27	0.0	0.0	0.0	0.0
SN126	7.08E-11	7.08E-11	7.08E-11	7.08E-11	7.08E-11	7.08E-11	7.08E-11	7.08E-11	7.07E-11	7.06E-11	7.03E-11
SB125	5.83E-06	4.54E-06	3.53E-06	1.66E-06	4.74E-07	3.85E-08	2.06E-11	7.29E-17	9.12E-28	0.0	0.0
SB126	7.49E-11	1.47E-10	1.47E-10	1.47E-10	1.47E-10	1.47E-10	1.47E-10	1.47E-10	1.47E-10	1.46E-10	1.46E-10
SB126M	3.79E-10	7.23E-10	7.23E-10	7.23E-10	7.23E-10	7.23E-10	7.23E-10	7.22E-10	7.22E-10	7.20E-10	7.18E-10
TR125M	1.45E-06	3.11E-07	2.32E-07	1.09E-07	3.11E-08	2.53E-09	1.35E-12	4.79E-18	5.98E-29	0.0	0.0
CS134	2.15E-04	1.53E-04	1.10E-04	4.00E-05	7.45E-06	2.59E-07	1.08E-11	5.44E-19	1.38E-33	0.0	0.0
CS135	1.53E-10	1.53E-10	1.53E-10	1.53E-10	1.53E-10	1.53E-10	1.53E-10	1.53E-10	1.53E-10	1.53E-10	1.53E-10
CS137	1.08E-04	1.05E-04	1.03E-04	9.59E-05	8.55E-05	6.78E-05	3.39E-05	1.07E-05	1.06E-06	1.04E-09	1.00E-14
BA137M	3.61E-04	3.53E-04	3.45E-04	3.22E-04	2.87E-04	2.28E-04	1.14E-04	3.59E-05	3.56E-06	3.48E-09	3.36E-14
CR144	6.46E-07	2.65E-07	1.09E-07	7.52E-09	8.77E-11	1.19E-14	2.98E-26	1.38E-45	0.0	0.0	0.0
PR144	7.15E-06	2.94E-06	1.21E-06	8.34E-08	9.72E-10	1.32E-13	3.31E-25	1.53E-44	0.0	0.0	0.0
PR144M	3.88E-09	1.64E-09	6.73E-10	4.66E-11	5.43E-13	7.37E-17	1.85E-28	8.53E-48	0.0	0.0	0.0
PM147	1.26E-07	9.68E-08	7.43E-08	3.36E-08	8.98E-09	6.40E-10	2.32E-13	4.25E-19	1.44E-30	0.0	0.0
SM147	1.07E-16	1.35E-16	1.56E-16	1.94E-16	2.17E-16	2.25E-16	2.25E-16	2.25E-16	2.25E-16	2.25E-16	2.25E-16
SM148	2.03E-34	2.54E-34	3.11E-34	5.16E-34	9.55E-34	2.10E-33	6.65E-33	1.52E-32	3.27E-32	8.52E-32	1.73E-31
EU152	2.66E-05	2.53E-05	2.41E-05	2.07E-05	1.60E-05	9.62E-06	2.09E-06	1.63E-07	1.00E-09	2.30E-16	1.98E-27
EU154	4.84E-06	4.46E-06	4.12E-06	3.23E-06	2.16E-06	9.65E-07	8.61E-08	1.53E-09	4.85E-13	1.54E-23	4.90E-41
EU155	2.36E-08	2.05E-08	1.78E-08	1.17E-08	5.83E-09	1.44E-09	2.18E-11	2.01E-14	1.72E-20	1.07E-38	0.0
GD152	5.99E-19	6.79E-19	7.55E-19	9.60E-19	1.24E-18	1.63E-18	2.08E-18	2.20E-18	2.21E-18	2.21E-18	2.21E-18
TOTAL	7.86E-04	6.90E-04	6.25E-04	5.13E-04	4.24E-04	3.27E-04	1.60E-04	4.98E-05	4.92E-06	1.56E-08	8.55E-09

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	3.33E+10	2.75E+10	2.31E+10	1.48E+10	9.09E+09	5.72E+09	2.86E+09	1.10E+09	2.53E+08	3.33E+07	1.58E+07
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	3.14E-03	2.67E-03	2.29E-03	1.54E-03	9.10E-04	4.53E-04	1.69E-04	5.50E-05	8.14E-06	1.61E-06	1.40E-06

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = CONT. STAHLBL., TYP IV

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NA 22	4.10E+05	3.14E+05	2.41E+05	1.08E+05	2.86E+04	1.99E+03	6.75E-01	1.11E-06	3.01E-18	0.0	0.0
CO 60	5.20E+06	4.56E+06	4.00E+06	2.70E+06	1.40E+06	3.75E+05	7.25E+03	1.01E+01	1.97E-05	1.45E-22	0.0
TOTAL	5.61E+06	4.88E+06	4.24E+06	2.80E+06	1.43E+06	3.77E+05	7.26E+03	1.01E+01	1.97E-05	1.45E-22	0.0

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = CONT. STAHLBL., TYP IV

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NA 22	1.57E-07	1.20E-07	9.21E-08	4.14E-08	1.09E-08	7.62E-10	2.58E-13	4.25E-19	1.15E-30	0.0	0.0
CO 60	2.17E-06	1.90E-06	1.67E-06	1.12E-06	5.82E-07	1.56E-07	3.02E-09	4.22E-12	8.20E-18	6.03E-35	0.0
TOTAL	2.32E-06	2.02E-06	1.76E-06	1.16E-06	5.93E-07	1.57E-07	3.02E-09	4.22E-12	8.20E-18	6.03E-35	0.0

NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = CONT. STAHLBL., TYP IV

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	3.50E-03	4.06E-03	4.69E-03	6.96E-03	1.19E-02	2.56E-02	8.52E-02	2.11E-01	4.83E-01	1.39E+00	2.77E+00
TL208	1.70E-11	1.70E-11	1.70E-11	1.69E-11	1.69E-11	3.39E-10	2.22E-09	9.10E-09	4.03E-08	2.39E-07	9.25E-07
TL209	2.60E-09	3.37E-09	4.25E-09	8.04E-09	1.94E-08	7.42E-08	8.27E-07	6.64E-06	5.50E-05	8.23E-04	5.65E-03
PB209	1.20E-07	1.53E-07	1.93E-07	3.65E-07	8.84E-07	3.37E-06	3.76E-05	3.02E-04	2.50E-03	3.74E-02	2.57E-01
PB210	2.00E-06	2.59E-06	3.31E-06	6.50E-06	1.68E-05	7.16E-05	9.38E-04	8.13E-03	6.67E-02	9.30E-01	4.31E+00
PB211	3.50E-03	4.07E-03	4.70E-03	6.98E-03	1.20E-02	2.56E-02	8.54E-02	2.12E-01	4.84E-01	1.40E+00	2.77E+00
PB212	4.70E-11	4.72E-11	4.73E-11	4.72E-11	4.72E-11	9.45E-10	6.18E-09	2.54E-08	1.12E-07	6.65E-07	2.58E-06
PB214	1.90E-05	2.36E-05	2.90E-05	5.06E-05	1.10E-04	3.54E-04	2.79E-03	1.63E-02	9.81E-02	9.30E-01	4.31E+00
BI210	2.00E-06	2.59E-06	3.31E-06	6.51E-06	1.68E-05	7.16E-05	9.38E-04	8.13E-03	6.67E-02	9.30E-01	4.31E+00
BI211	3.50E-03	4.07E-03	4.70E-03	6.98E-03	1.20E-02	2.56E-02	8.54E-02	2.12E-01	4.84E-01	1.40E+00	2.77E+00
BI212	4.70E-11	4.72E-11	4.73E-11	4.72E-11	4.72E-11	9.45E-10	6.18E-09	2.54E-08	1.12E-07	6.65E-07	2.58E-06
BI213	1.20E-07	1.53E-07	1.93E-07	3.65E-07	8.84E-07	3.37E-06	3.76E-05	3.02E-04	2.50E-03	3.74E-02	2.57E-01
BI214	1.90E-05	2.36E-05	2.90E-05	5.06E-05	1.10E-04	3.54E-04	2.79E-03	1.63E-02	9.81E-02	9.30E-01	4.31E+00
PO210	2.00E-06	2.29E-06	2.89E-06	5.78E-06	1.68E-05	7.16E-05	9.38E-04	8.13E-03	6.67E-02	9.30E-01	4.31E+00
PO211	1.10E-05	1.22E-05	1.41E-05	2.09E-05	3.59E-05	7.69E-05	2.56E-04	6.35E-04	1.45E-03	4.19E-03	8.32E-03
PO212	3.00E-11	3.03E-11	3.03E-11	3.02E-11	3.02E-11	6.06E-10	3.96E-09	1.63E-08	7.19E-08	4.26E-07	1.65E-06
PO213	1.20E-07	1.50E-07	1.89E-07	3.57E-07	8.64E-07	3.30E-06	3.68E-05	2.95E-04	2.45E-03	3.66E-02	2.61E-01
PO214	1.90E-05	2.36E-05	2.90E-05	5.06E-05	1.10E-04	3.54E-04	2.79E-03	1.63E-02	9.81E-02	9.30E-01	4.31E+00
PO215	3.50E-03	4.07E-03	4.70E-03	6.98E-03	1.20E-02	2.56E-02	8.54E-02	2.12E-01	4.84E-01	1.40E+00	2.77E+00
PO216	4.70E-11	4.72E-11	4.73E-11	4.72E-11	4.72E-11	9.45E-10	6.18E-09	2.54E-08	1.12E-07	6.65E-07	2.58E-06
PO218	1.90E-05	2.36E-05	2.90E-05	5.06E-05	1.10E-04	3.54E-04	2.79E-03	1.63E-02	9.81E-02	9.30E-01	4.31E+00
AT217	1.20E-07	1.53E-07	1.93E-07	3.65E-07	8.84E-07	3.37E-06	3.76E-05	3.02E-04	2.50E-03	3.74E-02	2.57E-01
RN219	3.50E-03	4.07E-03	4.70E-03	6.98E-03	1.20E-02	2.56E-02	8.54E-02	2.12E-01	4.84E-01	1.40E+00	2.77E+00
RN220	4.70E-11	4.72E-11	4.73E-11	4.72E-11	4.72E-11	9.45E-10	6.18E-09	2.54E-08	1.12E-07	6.65E-07	2.58E-06
RN222	1.90E-05	2.36E-05	2.90E-05	5.06E-05	1.10E-04	3.54E-04	2.79E-03	1.63E-02	9.81E-02	9.30E-01	4.31E+00
FR221	1.20E-07	1.53E-07	1.93E-07	3.65E-07	8.84E-07	3.37E-06	3.76E-05	3.02E-04	2.50E-03	3.74E-02	2.57E-01
FR223	4.90E-05	5.69E-05	6.57E-05	9.76E-05	1.67E-04	3.59E-04	1.20E-03	2.96E-03	6.78E-03	1.95E-02	3.88E-02
RA223	3.50E-03	4.07E-03	4.70E-03	6.98E-03	1.20E-02	2.56E-02	8.54E-02	2.12E-01	4.84E-01	1.40E+00	2.77E+00
RA224	4.70E-11	4.72E-11	4.73E-11	4.72E-11	4.72E-11	9.45E-10	6.18E-09	2.54E-08	1.12E-07	6.65E-07	2.58E-06
RA225	1.20E-07	1.53E-07	1.93E-07	3.65E-07	8.84E-07	3.37E-06	3.76E-05	3.02E-04	2.50E-03	3.74E-02	2.57E-01
RA226	1.90E-05	2.36E-05	2.90E-05	5.06E-05	1.10E-04	3.54E-04	2.79E-03	1.63E-02	9.81E-02	9.30E-01	4.31E+00
RA228	8.00E-11	8.00E-11	8.00E-11	8.00E-11	2.95E-10	9.03E-10	6.18E-09	2.54E-08	1.12E-07	6.65E-07	2.58E-06
AC225	1.20E-07	1.53E-07	1.93E-07	3.65E-07	8.84E-07	3.37E-06	3.76E-05	3.02E-04	2.50E-03	3.74E-02	2.57E-01
AC227	3.50E-03	4.06E-03	4.69E-03	6.97E-03	1.20E-02	2.56E-02	8.54E-02	2.12E-01	4.84E-01	1.40E+00	2.77E+00
AC228	8.00E-11	8.00E-11	8.00E-11	8.00E-11	2.95E-10	9.03E-10	6.18E-09	2.54E-08	1.12E-07	6.65E-07	2.58E-06
TH227	3.50E-03	4.01E-03	4.64E-03	6.88E-03	1.18E-02	2.53E-02	8.42E-02	2.09E-01	4.77E-01	1.38E+00	2.74E+00
TH228	4.70E-11	4.70E-11	4.71E-11	4.71E-11	4.71E-11	9.45E-10	6.18E-09	2.54E-08	1.12E-07	6.65E-07	2.58E-06
TH229	1.20E-07	1.53E-07	1.93E-07	3.65E-07	8.84E-07	3.37E-06	3.76E-05	3.02E-04	2.50E-03	3.74E-02	2.57E-01
TH230	9.90E-03	1.15E-02	1.34E-02	2.02E-02	3.56E-02	8.09E-02	3.20E-01	9.94E-01	2.99E+00	1.09E+01	2.52E+01
TH231	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.31E+02	1.32E+02	1.33E+02
TH232	2.40E-10	2.81E-10	3.27E-10	4.96E-10	8.83E-10	2.05E-09	8.70E-09	3.02E-08	1.12E-07	6.65E-07	2.58E-06
TH234	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04
PA231	2.00E-02	2.28E-02	2.55E-02	3.38E-02	4.76E-02	7.51E-02	1.58E-01	2.95E-01	5.70E-01	1.40E+00	2.77E+00
PA233	1.40E+01	1.60E+01	1.82E+01	2.57E+01	4.08E+01	7.83E+01	2.18E+02	4.66E+02	9.17E+02	1.91E+03	2.79E+03
PA234M	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04
PA234	3.50E+01	3.51E+01	3.51E+01	3.51E+01	3.51E+01	3.51E+01	3.51E+01	3.51E+01	3.51E+01	3.51E+01	3.51E+01
U 233	3.10E-04	3.82E-04	4.65E-04	7.60E-04	1.48E-03	4.04E-03	2.32E-02	9.80E-02	4.03E-01	2.31E+00	7.56E+00
U 234	1.70E+02	1.94E+02	2.17E+02	2.86E+02	3.97E+02	6.07E+02	1.15E+03	1.80E+03	2.55E+03	3.13E+03	3.22E+03
U 235	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.30E+02	1.31E+02	1.32E+02	1.33E+02

U 236	7.70E-01	8.77E-01	9.83E-01	1.30E+00	1.84E+00	2.90E+00	6.09E+00	1.14E+01	2.19E+01	5.27E+01	1.02E+02
U 237	4.30E+03	8.11E+03	7.73E+03	6.69E+03	5.26E+03	3.25E+03	7.68E+02	6.92E+01	5.62E-01	3.02E-07	1.07E-17
U 238	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04	2.70E+04
NP237	1.40E+01	1.60E+01	1.82E+01	2.57E+01	4.08E+01	7.83E+01	2.18E+02	4.66E+02	9.17E+02	1.91E+03	2.79E+03
PU238	8.30E+06	8.24E+06	8.17E+06	7.98E+06	7.67E+06	7.09E+06	5.59E+06	3.77E+06	1.71E+06	1.60E+05	3.09E+03
PU239	3.10E+06	3.10E+06	3.10E+06	3.10E+06	3.10E+06	3.10E+06	3.10E+06	3.09E+06	3.08E+06	3.06E+06	3.01E+06
PU240	3.60E+06	3.60E+06	3.60E+06	3.60E+06	3.60E+06	3.59E+06	3.58E+06	3.56E+06	3.53E+06	3.42E+06	3.24E+06
PU241	3.40E+08	3.24E+08	3.09E+08	2.67E+08	2.10E+08	1.30E+08	3.07E+07	2.76E+06	2.25E+04	1.21E-02	4.27E-13
PU242	3.50E+03	3.50E+03	3.50E+03	3.50E+03	3.50E+03	3.50E+03	3.50E+03	3.50E+03	3.50E+03	3.50E+03	3.50E+03
AM241	6.00E+06	6.52E+06	7.02E+06	8.37E+06	1.02E+07	1.27E+07	1.53E+07	1.50E+07	1.29E+07	7.95E+06	3.57E+06
TOTAL	3.61E+08	3.46E+08	3.31E+08	2.91E+08	2.35E+08	1.56E+08	5.83E+07	2.83E+07	2.13E+07	1.47E+07	9.92E+06

ACTINIDES

 NUCLIDE THERMAL POWER, WATTS
 BASIS = CONT. STAHLBL., TYP IV

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	2.78E-16	3.22E-16	3.72E-16	5.53E-16	9.47E-16	2.03E-15	6.76E-15	1.67E-14	3.83E-14	1.10E-13	2.20E-13
TL208	1.08E-23	1.08E-23	1.08E-23	1.08E-23	1.08E-23	2.16E-22	1.41E-21	6.79E-21	2.56E-20	1.52E-19	5.88E-19
TL209	1.17E-21	1.51E-21	1.91E-21	3.61E-21	8.73E-21	3.33E-20	3.71E-19	2.98E-18	2.47E-17	3.69E-16	2.54E-15
PB209	3.73E-21	4.75E-21	6.01E-21	1.14E-20	2.75E-20	1.05E-19	1.17E-18	9.38E-18	7.77E-17	1.16E-15	7.99E-15
PB210	1.25E-20	1.62E-20	2.08E-20	4.07E-20	1.05E-19	4.48E-19	5.87E-18	5.09E-17	4.18E-16	5.82E-15	2.70E-14
PB211	2.84E-16	3.30E-16	3.81E-16	5.65E-16	9.70E-16	2.08E-15	6.92E-15	1.71E-14	3.92E-14	1.13E-13	2.25E-13
PB212	2.42E-24	2.43E-24	2.43E-24	2.43E-24	2.43E-24	4.86E-23	3.18E-22	1.30E-21	5.78E-21	3.42E-20	1.33E-19
PB214	1.64E-18	2.04E-18	2.50E-18	4.36E-18	9.47E-18	3.05E-17	2.40E-16	1.40E-15	8.46E-15	8.01E-14	3.71E-13
BI210	1.25E-19	1.61E-19	2.07E-19	4.05E-19	1.05E-18	4.46E-18	5.84E-17	5.07E-16	4.16E-15	5.79E-14	2.68E-13
BI211	3.77E-15	4.39E-15	5.07E-15	7.53E-15	1.29E-14	2.76E-14	9.21E-14	2.28E-13	5.22E-13	1.51E-12	2.99E-12
BI212	2.16E-23	2.17E-23	2.17E-23	2.17E-23	2.17E-23	4.34E-22	2.84E-21	1.17E-20	5.16E-20	3.06E-19	1.18E-18
BI213	1.36E-20	1.74E-20	2.20E-20	4.15E-20	1.00E-19	3.83E-19	4.27E-18	3.43E-17	2.84E-16	4.25E-15	2.92E-14
BI214	6.58E-18	8.19E-18	1.00E-17	1.75E-17	3.80E-17	1.23E-16	9.65E-16	5.65E-15	3.40E-14	3.22E-13	1.49E-12
PO210	1.73E-18	1.98E-18	2.51E-18	5.01E-18	1.46E-17	6.20E-17	8.12E-16	7.05E-15	5.78E-14	8.05E-13	3.73E-12
PO211	1.34E-17	1.49E-17	1.72E-17	2.55E-17	4.37E-17	9.36E-17	3.12E-16	7.72E-16	1.77E-15	5.10E-15	1.01E-14
PO212	4.31E-23	4.34E-23	4.34E-23	4.34E-23	4.34E-23	8.69E-22	5.68E-21	2.33E-20	1.03E-19	6.11E-19	2.37E-18
PO213	1.64E-19	2.05E-19	2.58E-19	4.89E-19	1.18E-18	4.51E-18	5.03E-17	4.04E-16	3.35E-15	5.00E-14	3.44E-13
PO214	2.39E-17	2.97E-17	3.64E-17	6.35E-17	1.38E-16	4.45E-16	3.50E-15	2.05E-14	1.23E-13	1.17E-12	5.41E-12
PO215	4.22E-15	4.91E-15	5.67E-15	8.42E-15	1.44E-14	3.09E-14	1.03E-13	2.55E-13	5.84E-13	1.68E-12	3.35E-12
PO216	5.03E-23	5.05E-23	5.06E-23	5.05E-23	5.05E-23	1.01E-21	6.61E-21	2.71E-20	1.20E-19	7.11E-19	2.76E-18
PO218	1.86E-17	2.31E-17	2.84E-17	4.95E-17	1.08E-16	3.47E-16	2.73E-15	1.60E-14	9.61E-14	9.10E-13	4.22E-12
AT217	1.38E-19	1.76E-19	2.23E-19	4.22E-19	1.02E-18	3.89E-18	4.34E-17	3.48E-16	2.89E-15	4.31E-14	2.96E-13
RN219	3.90E-15	4.53E-15	5.23E-15	7.77E-15	1.33E-14	2.85E-14	9.51E-14	2.36E-13	5.39E-13	1.55E-12	3.09E-12
RN220	4.82E-23	4.85E-23	4.85E-23	4.84E-23	4.84E-23	9.69E-22	6.34E-21	2.60E-20	1.15E-19	6.82E-19	2.64E-18
RN222	1.70E-17	2.12E-17	2.60E-17	4.53E-17	9.84E-17	3.17E-16	2.50E-15	1.46E-14	8.79E-14	8.33E-13	3.86E-12
FR221	1.24E-19	1.58E-19	2.00E-19	3.78E-19	9.14E-19	3.49E-18	3.89E-17	3.12E-16	2.59E-15	3.87E-14	2.66E-13
FR223	3.44E-18	3.99E-18	4.61E-18	6.85E-18	1.18E-17	2.52E-17	8.39E-17	2.08E-16	4.76E-16	1.37E-15	2.73E-15
RA223	3.35E-15	3.90E-15	4.50E-15	6.69E-15	1.15E-14	2.46E-14	8.18E-14	2.03E-13	4.64E-13	1.34E-12	2.66E-12
RA224	4.36E-23	4.38E-23	4.38E-23	4.38E-23	4.38E-23	8.76E-22	5.73E-21	2.35E-20	1.04E-19	6.17E-19	2.39E-18
RA225	2.28E-21	2.90E-21	3.66E-21	6.93E-21	1.68E-20	6.39E-20	7.13E-19	5.72E-18	4.74E-17	7.09E-16	4.87E-15
RA226	1.48E-17	1.84E-17	2.26E-17	3.95E-17	8.57E-17	2.76E-16	2.17E-15	1.27E-14	7.66E-14	7.25E-13	3.36E-12
RA228	1.67E-25	1.67E-25	1.67E-25	1.67E-25	6.14E-25	1.88E-24	1.29E-23	5.28E-23	2.34E-22	1.38E-21	5.37E-21
AC225	1.14E-19	1.45E-19	1.84E-19	3.48E-19	8.40E-19	3.21E-18	3.58E-17	2.87E-16	2.38E-15	3.55E-14	2.44E-13
AC227	4.58E-17	5.32E-17	6.14E-17	9.13E-17	1.57E-16	3.35E-16	1.12E-15	2.77E-15	6.33E-15	1.83E-14	3.63E-14
AC228	1.87E-23	1.87E-23	1.87E-23	1.87E-23	6.89E-23	2.11E-22	1.44E-21	5.92E-21	2.62E-20	1.55E-19	6.02E-19
TH227	3.45E-15	3.95E-15	4.56E-15	6.78E-15	1.16E-14	2.49E-14	8.29E-14	2.06E-13	4.70E-13	1.36E-12	2.69E-12
TH228	4.16E-23	4.16E-23	4.16E-23	4.17E-23	4.17E-23	8.36E-22	5.46E-21	2.24E-20	9.93E-20	6.88E-19	2.28E-18
TH229	9.94E-20	1.27E-19	1.60E-19	3.03E-19	7.32E-19	2.79E-18	3.11E-17	2.50E-16	2.07E-15	3.10E-14	2.13E-13
TH230	7.57E-15	8.82E-15	1.02E-14	1.54E-14	2.72E-14	6.18E-14	2.45E-13	7.59E-13	2.29E-12	8.34E-12	1.92E-11
TH231	1.97E-12	1.97E-12	1.97E-12	1.97E-12	1.97E-12	1.97E-12	1.98E-12	1.98E-12	1.98E-12	2.00E-12	2.02E-12
TH232	1.57E-22	1.84E-22	2.14E-22	3.24E-22	5.77E-22	1.34E-21	5.69E-21	1.98E-20	7.34E-20	4.35E-19	1.68E-18
TH234	2.96E-10	2.96E-10	2.96E-10	2.96E-10	2.96E-10	2.96E-10	2.96E-10	2.96E-10	2.96E-10	2.96E-10	2.96E-10
PA231	1.65E-14	1.88E-14	2.11E-14	2.79E-14	3.92E-14	6.19E-14	1.30E-13	2.43E-13	4.70E-13	1.15E-12	2.29E-12
PA233	8.59E-13	9.84E-13	1.12E-12	1.58E-12	2.51E-12	4.80E-12	1.34E-11	2.86E-11	5.63E-11	1.17E-10	1.71E-10
PA234M	3.61E-09	3.61E-09	3.61E-09	3.61E-09	3.61E-09	3.61E-09	3.61E-09	3.61E-09	3.61E-09	3.61E-09	3.61E-09
PA234	1.36E-11	1.36E-11	1.36E-11	1.36E-11	1.36E-11	1.36E-11	1.36E-11	1.36E-11	1.36E-11	1.36E-11	1.36E-11
U 233	2.44E-16	3.01E-16	3.65E-16	5.98E-16	1.16E-15	3.18E-15	1.82E-14	7.71E-14	3.17E-13	1.81E-12	5.95E-12
U 234	1.32E-10	1.51E-10	1.69E-10	2.22E-10	3.09E-10	4.72E-10	8.92E-10	1.40E-09	1.98E-09	2.43E-09	2.60E-09
U 235	9.75E-11	9.75E-11	9.75E-11	9.75E-11	9.75E-11	9.75E-11	9.76E-11	9.77E-11	9.79E-11	9.86E-11	9.97E-11

U 236	5.64E-13	6.42E-13	7.20E-13	9.54E-13	1.34E-12	2.12E-12	4.46E-12	8.33E-12	1.60E-11	3.86E-11	7.46E-11
U 237	2.20E-10	4.15E-10	3.95E-10	3.42E-10	2.69E-10	1.66E-10	3.93E-11	3.54E-12	2.88E-14	1.54E-20	5.47E-31
U 238	1.85E-08	1.85E-08	1.85E-08	1.85E-08	1.85E-08	1.85E-08	1.85E-08	1.85E-08	1.85E-08	1.85E-08	1.85E-08
NP237	1.11E-11	1.27E-11	1.45E-11	2.04E-11	3.24E-11	6.22E-11	1.73E-10	3.70E-10	7.28E-10	1.52E-09	2.22E-09
PU238	7.44E-06	7.38E-06	7.32E-06	7.15E-06	6.88E-06	6.35E-06	5.01E-06	3.38E-06	1.53E-06	1.43E-07	2.76E-09
PU239	2.61E-06	2.61E-06	2.61E-06	2.61E-06	2.60E-06	2.60E-06	2.60E-06	2.60E-06	2.59E-06	2.57E-06	2.53E-06
PU240	3.03E-06	3.03E-06	3.03E-06	3.03E-06	3.03E-06	3.03E-06	3.02E-06	3.00E-06	2.97E-06	2.88E-06	2.73E-06
PU241	2.83E-07	2.70E-07	2.57E-07	2.23E-07	1.75E-07	1.08E-07	2.55E-08	2.30E-09	1.87E-11	1.00E-17	3.56E-28
PU242	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.79E-09	2.79E-09	2.79E-09	2.79E-09
AM241	5.42E-06	5.89E-06	6.34E-06	7.56E-06	9.21E-06	1.15E-05	1.38E-05	1.36E-05	1.16E-05	7.18E-06	3.22E-06
TOTAL	1.88E-05	1.92E-05	1.96E-05	2.06E-05	2.19E-05	2.36E-05	2.45E-05	2.26E-05	1.87E-05	1.28E-05	8.51E-06

FISSION PRODUCTS

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = CONT. STAHLBL., TYP IV

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	3.60E+05	3.40E+05	3.22E+05	2.72E+05	2.05E+05	1.17E+05	2.18E+04	1.32E+03	4.81E+00	2.35E-07	1.53E-19
SR 90	3.80E+08	3.71E+08	3.62E+08	3.38E+08	3.00E+08	2.36E+08	1.16E+08	3.52E+07	3.26E+06	2.59E+03	1.76E-02
Y 90	3.80E+08	3.71E+08	3.63E+08	3.38E+08	3.00E+08	2.36E+08	1.16E+08	3.52E+07	3.26E+06	2.59E+03	1.76E-02
ZR 95	1.40E+07	2.68E+05	5.13E+03	3.60E-02	9.24E-11	6.09E-28	0.0	0.0	0.0	0.0	0.0
NB 95	1.60E+07	6.05E+05	1.18E+04	7.99E-02	2.05E-10	1.35E-27	0.0	0.0	0.0	0.0	0.0
NB 95M	1.60E-09	1.99E+03	3.81E+01	2.67E-04	6.85E-13	4.52E-30	0.0	0.0	0.0	0.0	0.0
RU106	3.10E+08	1.56E+08	7.84E+07	9.97E+06	3.21E+05	3.31E+02	3.66E-07	4.31E-22	0.0	0.0	0.0
RH106	3.10E+08	1.56E+08	7.84E+07	9.97E+06	3.21E+05	3.31E+02	3.66E-07	4.31E-22	0.0	0.0	0.0
SB125	7.10E+07	5.53E+07	4.30E+07	2.02E+07	5.77E+06	4.69E+05	2.51E+02	8.88E-04	1.11E-14	0.0	0.0
TE125M	1.50E+07	1.35E+07	1.05E+07	4.94E+06	1.41E+06	1.14E+05	6.13E+01	2.17E-04	2.71E-15	0.0	0.0
CS134	5.40E+07	3.86E+07	2.76E+07	1.01E+07	1.87E+06	6.51E+04	2.72E+00	1.37E-07	3.47E-22	0.0	0.0
CS137	5.50E+08	5.38E+08	5.25E+08	4.90E+08	4.37E+08	3.47E+08	1.73E+08	5.46E+07	5.42E+06	5.30E+03	5.11E-02
BA137M	5.20E+08	5.09E+08	4.97E+08	4.64E+08	4.13E+08	3.28E+08	1.64E+08	5.17E+07	5.13E+06	5.02E+03	4.83E-02
CE144	3.60E+07	1.48E+07	6.07E+06	4.20E+05	4.89E+03	6.64E-01	1.66E-12	7.69E-32	0.0	0.0	0.0
PR144	3.60E+07	1.48E+07	6.07E+06	4.20E+05	4.89E+03	6.64E-01	1.66E-12	7.69E-32	0.0	0.0	0.0
PR144M	4.40E+05	1.77E+05	7.28E+04	5.04E+03	5.87E+01	7.97E-03	2.00E-14	9.22E-34	0.0	0.0	0.0
ND144	2.40E-08	3.19E-08	3.51E-08	3.72E-08	3.74E-08	3.74E-08	3.74E-08	3.74E-08	3.74E-08	3.74E-08	3.74E-08
TOTAL	2.69E+09	2.24E+09	2.00E+09	1.69E+09	1.46E+09	1.15E+09	5.69E+08	1.77E+08	1.71E+07	1.55E+04	1.35E-01

FISSION PRODUCTS

 NUCLIDE THERMAL POWER, WATTS
 BASIS = CONT. STAHLBL., TYP IV

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	3.29E-10	3.11E-10	2.94E-10	2.48E-10	1.88E-10	1.07E-10	1.99E-11	1.20E-12	4.39E-15	2.14E-22	1.40E-34
SR 90	1.19E-05	1.16E-05	1.14E-05	1.06E-05	9.40E-06	7.41E-06	3.63E-06	1.10E-06	1.02E-07	8.11E-11	5.52E-16
Y 90	5.69E-05	5.56E-05	5.43E-05	5.06E-05	4.49E-05	3.54E-05	1.73E-05	5.27E-06	4.88E-07	3.87E-10	2.64E-15
ZR 95	1.92E-06	3.67E-08	7.02E-10	4.92E-15	1.26E-23	8.34E-41	0.0	0.0	0.0	0.0	0.0
NB 95	2.08E-06	7.84E-08	1.53E-09	1.04E-14	2.66E-23	1.75E-40	0.0	0.0	0.0	0.0	0.0
NB 95M	6.01E-23	7.47E-11	1.43E-12	1.00E-17	2.57E-26	1.70E-43	0.0	0.0	0.0	0.0	0.0
RU106	4.97E-07	2.50E-07	1.26E-07	1.60E-08	5.13E-10	5.31E-13	5.86E-22	6.90E-37	0.0	0.0	0.0
RH106	8.04E-05	4.04E-05	2.03E-05	2.58E-06	8.31E-08	8.59E-11	9.48E-20	1.12E-34	0.0	0.0	0.0
SB125	6.00E-06	4.67E-06	3.63E-06	1.71E-06	4.87E-07	3.96E-08	2.12E-11	7.50E-17	9.38E-28	0.0	0.0
TE125M	3.41E-07	3.06E-07	2.38E-07	1.12E-07	3.20E-08	2.60E-09	1.39E-12	4.92E-18	6.16E-29	0.0	0.0
CS134	1.49E-05	1.06E-05	7.59E-06	2.77E-06	5.16E-07	1.79E-08	7.48E-13	3.77E-20	9.56E-35	0.0	0.0
CS137	1.64E-05	1.61E-05	1.57E-05	1.47E-05	1.31E-05	1.04E-05	5.18E-06	1.63E-06	1.62E-07	1.58E-10	1.53E-15
BA137M	5.52E-05	5.40E-05	5.27E-05	4.92E-05	4.38E-05	3.48E-05	1.74E-05	5.48E-06	5.44E-07	5.32E-10	5.13E-15
CE144	6.46E-07	2.65E-07	1.09E-07	7.52E-09	8.77E-11	1.19E-14	2.98E-26	1.38E-45	0.0	0.0	0.0
PR144	7.15E-06	2.94E-06	1.21E-06	8.34E-08	9.72E-10	1.32E-13	3.31E-25	1.53E-44	0.0	0.0	0.0
PR144M	4.07E-09	1.64E-09	6.73E-10	4.66E-11	5.43E-13	7.37E-17	1.85E-28	8.53E-48	0.0	0.0	0.0
TOTAL	2.54E-04	1.97E-04	1.67E-04	1.32E-04	1.12E-04	8.80E-05	4.35E-05	1.35E-05	1.30E-06	1.16E-09	9.84E-15

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

	RADIOACTIVITY, BECQUEREL										
TOTAL	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
	3.06E+09	2.59E+09	2.33E+09	1.98E+09	1.70E+09	1.30E+09	6.27E+08	2.05E+08	3.84E+07	1.47E+07	9.92E+06
	THERMAL POWER, WATTS										
TOTAL	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
	2.76E-04	2.18E-04	1.89E-04	1.54E-04	1.35E-04	1.12E-04	6.81E-05	3.61E-05	2.00E-05	1.28E-05	8.51E-06

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = CONT. BETON, TYP II, NB20

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NA 22	1.90E+05	1.46E+05	1.12E+05	5.02E+04	1.33E+04	9.24E+02	3.13E-01	5.15E-07	1.40E-18	0.0	0.0
MN 54	9.50E+06	4.23E+06	1.88E+06	1.66E+05	2.89E+03	8.76E-01	2.45E-11	6.34E-29	0.0	0.0	0.0
FE 55	2.90E+08	2.22E+08	1.70E+08	7.65E+07	2.02E+07	1.40E+06	4.73E+02	7.71E-04	2.05E-15	0.0	0.0
CO 60	1.70E+09	1.49E+09	1.31E+09	8.81E+08	4.57E+08	1.23E+08	2.37E+06	3.31E+03	6.43E-03	4.73E-20	0.0
NI 59	1.80E+06	1.80E+06	1.80E+06	1.80E+06	1.80E+06	1.80E+06	1.80E+06	1.80E+06	1.80E+06	1.79E+06	1.79E+06
NI 63	7.10E+08	7.05E+08	7.00E+08	6.84E+08	6.59E+08	6.11E+08	4.87E+08	3.34E+08	1.57E+08	1.64E+07	3.80E+05
ZN 65	9.60E+05	3.40E+05	1.20E+05	5.35E+03	2.98E+01	9.27E-04	2.78E-17	0.0	0.0	0.0	0.0
TOTAL	2.71E+09	2.42E+09	2.18E+09	1.64E+09	1.14E+09	7.37E+08	4.92E+08	3.36E+08	1.59E+08	1.82E+07	2.17E+06

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = CONT. BETON, TYP II, NB20

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NA 22	7.27E-08	5.57E-08	4.27E-08	1.92E-08	5.07E-09	3.53E-10	1.20E-13	1.97E-19	5.34E-31	0.0	0.0
MN 54	1.28E-06	5.69E-07	2.53E-07	2.23E-08	3.88E-10	1.18E-13	3.30E-24	8.53E-42	0.0	0.0	0.0
FE 55	1.08E-05	8.26E-06	6.33E-06	2.84E-06	7.50E-07	5.22E-08	1.76E-11	2.87E-17	7.61E-29	0.0	0.0
CO 60	7.09E-04	6.21E-04	5.45E-04	3.67E-04	1.90E-04	5.11E-05	9.88E-07	1.38E-09	2.68E-15	1.97E-32	0.0
NI 59	3.10E-07	3.10E-07	3.10E-07	3.10E-07	3.10E-07	3.10E-07	3.10E-07	3.10E-07	3.09E-07	3.09E-07	3.07E-07
NI 63	7.62E-06	7.57E-06	7.51E-06	7.34E-06	7.07E-06	6.56E-06	5.23E-06	3.59E-06	1.69E-06	1.76E-07	4.08E-09
ZN 65	9.09E-08	3.22E-08	1.14E-08	5.07E-10	2.83E-12	8.78E-17	2.63E-30	0.0	0.0	0.0	0.0
TOTAL	7.29E-04	6.38E-04	5.59E-04	3.78E-04	1.98E-04	5.80E-05	6.53E-06	3.90E-06	2.00E-06	4.85E-07	3.11E-07

ACTINIDES

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = CONT. BETON, TYP II, NB20

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL208	7.00E+05	8.00E+05	7.34E+05	5.55E+05	3.37E+05	1.21E+05	3.88E+03	2.20E+01	9.93E-04	3.32E-17	0.0
PB212	2.40E+06	2.23E+06	2.05E+06	1.55E+06	9.40E+05	3.36E+05	1.08E+04	6.12E+01	2.77E-03	9.24E-17	0.0
BI212	2.00E+06	2.23E+06	2.05E+06	1.55E+06	9.40E+05	3.36E+05	1.08E+04	6.12E+01	2.77E-03	9.24E-17	0.0
PO212	1.30E+06	1.43E+06	1.31E+06	9.92E+05	6.03E+05	2.15E+05	6.92E+03	3.92E+01	1.77E-03	5.92E-17	0.0
PO216	2.00E+06	2.23E+06	2.05E+06	1.55E+06	9.40E+05	3.36E+05	1.08E+04	6.12E+01	2.76E-03	9.24E-17	0.0
RN220	2.00E+06	2.23E+06	2.05E+06	1.55E+06	9.40E+05	3.36E+05	1.08E+04	6.12E+01	2.76E-03	9.24E-17	0.0
RA224	2.40E+06	2.23E+06	2.05E+06	1.55E+06	9.40E+05	3.36E+05	1.08E+04	6.12E+01	2.76E-03	9.24E-17	0.0
RA228	1.90E+06	1.71E+06	1.55E+06	1.13E+06	6.76E+05	2.40E+05	1.08E+04	6.12E+01	1.97E-03	6.59E-17	0.0
AC228	1.90E+06	1.71E+06	1.55E+06	1.13E+06	6.76E+05	2.40E+05	1.08E+04	6.12E+01	1.97E-03	6.59E-17	0.0
TH228	2.40E+06	2.22E+06	2.04E+06	1.54E+06	9.39E+05	3.36E+05	1.08E+04	6.12E+01	2.76E-03	9.23E-17	0.0
TOTAL	1.90E+07	1.90E+07	1.74E+07	1.31E+07	7.93E+06	2.83E+06	9.71E+04	5.51E+02	2.33E-02	7.78E-16	0.0

ACTINIDES

 NUCLIDE THERMAL POWER, WATTS
 BASIS = CONT. BETON, TYP II, NB20

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL208	4.45E-07	5.09E-07	4.67E-07	3.53E-07	2.15E-07	7.67E-08	2.46E-09	1.40E-11	6.31E-16	2.11E-29	0.0
PB212	1.24E-07	1.15E-07	1.05E-07	7.96E-08	4.84E-08	1.73E-08	5.56E-10	3.15E-12	1.42E-16	4.76E-30	0.0
BI212	9.20E-07	1.02E-06	9.40E-07	7.11E-07	4.32E-07	1.54E-07	4.96E-09	2.81E-11	1.27E-15	4.25E-29	0.0
PO212	1.87E-06	2.05E-06	1.88E-06	1.42E-06	8.64E-07	3.09E-07	9.93E-09	5.63E-11	2.54E-15	8.50E-29	0.0
PO216	2.14E-06	2.38E-06	2.19E-06	1.66E-06	1.01E-06	3.60E-07	1.15E-08	6.55E-11	2.96E-15	9.88E-29	0.0
RN220	2.05E-06	2.29E-06	2.10E-06	1.59E-06	9.65E-07	3.45E-07	1.11E-08	6.28E-11	2.84E-15	9.48E-29	0.0
RA224	2.23E-06	2.07E-06	1.90E-06	1.44E-06	8.72E-07	3.12E-07	1.00E-08	5.68E-11	2.56E-15	8.57E-29	0.0
RA228	3.96E-09	3.57E-09	3.22E-09	2.36E-09	1.41E-09	5.00E-10	2.25E-11	1.28E-13	4.11E-18	1.37E-31	0.0
AC228	4.44E-07	4.00E-07	3.61E-07	2.65E-07	1.58E-07	5.61E-08	2.52E-09	1.43E-11	4.61E-16	1.54E-29	0.0
TH228	2.12E-06	1.96E-06	1.80E-06	1.37E-06	8.30E-07	2.97E-07	9.55E-09	5.42E-11	2.44E-15	8.16E-29	0.0
TOTAL	1.23E-05	1.28E-05	1.17E-05	8.88E-06	5.39E-06	1.93E-06	6.26E-08	3.55E-10	1.59E-14	5.30E-28	0.0

FISSION PRODUCTS

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = CONT. BETON, TYP II, NB20

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
RU106	4.70E+06	2.36E+06	1.19E+06	1.51E+05	4.86E+03	5.02E+00	5.54E-09	6.53E-24	0.0	0.0	0.0
RH106	4.70E+06	2.36E+06	1.19E+06	1.51E+05	4.86E+03	5.02E+00	5.54E-09	6.53E-24	0.0	0.0	0.0
AG108	2.00E+06	2.75E+06	2.73E+06	2.69E+06	2.61E+06	2.47E+06	2.10E+06	1.60E+06	9.27E+05	1.80E+05	1.18E+04
AG108M	3.10E+07	3.08E+07	3.07E+07	3.02E+07	2.94E+07	2.78E+07	2.36E+07	1.80E+07	1.04E+07	2.03E+06	1.32E+05
AG110	7.00E+01	4.25E+04	1.54E+04	7.40E+02	4.67E+00	1.86E-04	1.18E-17	0.0	0.0	0.0	0.0
AG110M	8.80E+06	3.20E+06	1.16E+06	5.56E+04	3.51E+02	1.40E-02	8.90E-16	0.0	0.0	0.0	0.0
SB125	4.30E+05	3.35E+05	2.60E+05	1.23E+05	3.49E+04	2.84E+03	1.52E+00	5.38E-06	6.73E-17	0.0	0.0
TE125M	3.00E+05	8.42E+04	6.36E+04	2.99E+04	8.53E+03	6.93E+02	3.71E-01	1.31E-06	1.64E-17	0.0	0.0
CS134	3.40E+05	2.43E+05	1.74E+05	6.34E+04	1.18E+04	4.10E+02	1.71E-02	8.63E-10	2.19E-24	0.0	0.0
CS137	5.20E+06	5.08E+06	4.97E+06	4.63E+06	4.13E+06	3.28E+06	1.64E+06	5.16E+05	5.13E+04	5.01E+01	4.83E-04
BA137M	4.90E+06	4.81E+06	4.70E+06	4.38E+06	3.91E+06	3.10E+06	1.55E+06	4.88E+05	4.85E+04	4.74E+01	4.57E-04
CE144	1.50E+05	6.16E+04	2.53E+04	1.75E+03	2.04E+01	2.77E-03	6.93E-15	3.20E-34	0.0	0.0	0.0
PR144	1.50E+05	6.16E+04	2.53E+04	1.75E+03	2.04E+01	2.77E-03	6.93E-15	3.20E-34	0.0	0.0	0.0
PR144M	1.80E+03	7.39E+02	3.03E+02	2.10E+01	2.45E-01	3.32E-05	8.32E-17	3.84E-36	0.0	0.0	0.0
ND144	1.10E-10	1.43E-10	1.56E-10	1.65E-10	1.66E-10	1.66E-10	1.66E-10	1.66E-10	1.66E-10	1.66E-10	1.66E-10
SM148	2.10E-23	2.61E-23	3.17E-23	5.13E-23	9.13E-23	1.93E-22	5.84E-22	1.31E-21	2.80E-21	7.27E-21	1.47E-20
EU152	3.30E+06	3.14E+06	2.98E+06	2.56E+06	1.98E+06	1.19E+06	2.58E+05	2.02E+04	1.24E+02	2.85E-05	2.46E-16
EU154	4.40E+06	4.06E+06	3.75E+06	2.94E+06	1.97E+06	8.79E+05	7.83E+04	1.39E+03	4.41E-01	1.40E-11	4.46E-29
EU155	8.30E+05	7.22E+05	6.28E+05	4.13E+05	2.05E+05	5.08E+04	7.67E+02	7.09E-01	6.05E-07	3.76E-25	0.0
GD152	5.60E-08	6.18E-08	6.72E-08	8.21E-08	1.02E-07	1.30E-07	1.63E-07	1.71E-07	1.72E-07	1.72E-07	1.72E-07
TOTAL	7.12E+07	6.02E+07	5.45E+07	4.84E+07	4.42E+07	3.88E+07	2.92E+07	2.06E+07	1.14E+07	2.21E+06	1.44E+05

FISSION PRODUCTS

 NUCLIDE THERMAL POWER, WATTS
 BASIS = CONT. BETON, TYP II, NB20

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
RU106	7.53E-09	3.79E-09	1.90E-09	2.42E-10	7.78E-12	8.05E-15	8.88E-24	1.05E-38	0.0	0.0	0.0
RH106	1.22E-06	6.13E-07	3.08E-07	3.92E-08	1.26E-09	1.30E-12	1.44E-21	1.69E-36	0.0	0.0	0.0
AG108	2.01E-07	2.76E-07	2.75E-07	2.70E-07	2.63E-07	2.49E-07	2.12E-07	1.61E-07	9.33E-08	1.82E-08	1.19E-09
AG108M	8.15E-06	8.11E-06	8.06E-06	7.93E-06	7.72E-06	7.31E-06	6.21E-06	4.72E-06	2.74E-06	5.33E-07	3.48E-08
AG110	1.36E-11	8.26E-09	3.00E-09	1.44E-10	9.07E-13	3.62E-17	2.30E-30	0.0	0.0	0.0	0.0
AG110M	3.97E-06	1.44E-06	5.24E-07	2.51E-08	1.59E-10	6.32E-15	4.02E-28	0.0	0.0	0.0	0.0
SB125	3.63E-08	2.83E-08	2.20E-08	1.04E-08	2.95E-09	2.40E-10	1.29E-13	4.55E-19	5.68E-30	0.0	0.0
TE125M	6.82E-09	1.91E-09	1.44E-09	6.80E-10	1.94E-10	1.57E-11	8.43E-15	2.98E-20	3.73E-31	0.0	0.0
CS134	9.36E-08	6.69E-08	4.78E-08	1.74E-08	3.25E-09	1.13E-10	4.71E-15	2.37E-22	6.02E-37	0.0	0.0
CS137	1.56E-07	1.52E-07	1.48E-07	1.39E-07	1.23E-07	9.80E-08	4.90E-08	1.54E-08	1.53E-09	1.50E-12	1.44E-17
BA137M	5.20E-07	5.10E-07	4.99E-07	4.65E-07	4.15E-07	3.29E-07	1.65E-07	5.18E-08	5.15E-09	5.03E-12	4.85E-17
CE144	2.69E-09	1.10E-09	4.53E-10	3.14E-11	3.65E-13	4.96E-17	1.24E-28	5.74E-48	0.0	0.0	0.0
PR144	2.98E-08	1.22E-08	5.02E-09	3.47E-10	4.05E-12	5.50E-16	1.38E-27	6.36E-47	0.0	0.0	0.0
PR144M	1.66E-11	6.83E-12	2.80E-12	1.94E-13	2.26E-15	3.07E-19	7.69E-31	3.55E-50	0.0	0.0	0.0
SM148	6.78E-36	8.43E-36	1.02E-35	1.65E-35	2.95E-35	6.23E-35	1.88E-34	4.24E-34	9.04E-34	2.34E-33	4.75E-33
EU152	6.76E-07	6.43E-07	6.11E-07	5.24E-07	4.06E-07	2.44E-07	5.29E-08	4.14E-09	2.54E-11	5.83E-18	5.03E-29
EU154	1.06E-06	9.82E-07	9.06E-07	7.11E-07	4.75E-07	2.12E-07	1.89E-08	3.37E-10	1.07E-13	3.39E-24	1.08E-41
EU155	1.63E-08	1.42E-08	1.23E-08	8.12E-09	4.04E-09	9.98E-10	1.51E-11	1.39E-14	1.19E-20	7.40E-39	0.0
GD152	1.97E-20	2.18E-20	2.37E-20	2.89E-20	3.60E-20	4.58E-20	5.73E-20	6.03E-20	6.05E-20	6.05E-20	6.05E-20
TOTAL	1.62E-05	1.29E-05	1.14E-05	1.01E-05	9.42E-06	8.44E-06	6.70E-06	4.96E-06	2.84E-06	5.51E-07	3.60E-08

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

		RADIOACTIVITY ,BECQUEREL										
INITIAL		.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y	
TOTAL		2.80E+09	2.50E+09	2.25E+09	1.71E+09	1.19E+09	7.78E+08	5.21E+08	3.57E+08	1.71E+08	2.04E+07	2.31E+06
		THERMAL POWER ,WATTS										
INITIAL		.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y	
TOTAL		7.57E-04	6.64E-04	5.82E-04	3.97E-04	2.13E-04	6.84E-05	1.33E-05	8.86E-06	4.84E-06	1.04E-06	3.47E-07

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = CONT. BETON, TYP IV,NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NA 22	4.40E+07	3.37E+07	2.58E+07	1.16E+07	3.07E+06	2.14E+05	7.25E+01	1.19E-04	3.24E-16	0.0	0.0
CO 60	5.70E+08	5.00E+08	4.38E+08	2.95E+08	1.53E+08	4.11E+07	7.95E+05	1.11E+03	2.16E-03	1.59E-20	0.0
TOTAL	6.14E+08	5.34E+08	4.64E+08	3.07E+08	1.56E+08	4.13E+07	7.95E+05	1.11E+03	2.16E-03	1.59E-20	0.0

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = CONT. BETON, TYP IV,NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NA 22	1.68E-05	1.29E-05	9.88E-06	4.44E-06	1.17E-06	8.18E-08	2.77E-11	4.56E-17	1.24E-28	0.0	0.0
CO 60	2.38E-04	2.08E-04	1.83E-04	1.23E-04	6.38E-05	1.71E-05	3.31E-07	4.62E-10	8.99E-16	6.61E-33	0.0
TOTAL	2.54E-04	2.21E-04	1.93E-04	1.28E-04	6.50E-05	1.72E-05	3.31E-07	4.62E-10	8.99E-16	6.61E-33	0.0

NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = CONT. BETON, TYP IV,NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	3.90E-01	4.51E-01	5.20E-01	7.68E-01	1.31E+00	2.78E+00	9.21E+00	2.28E+01	5.20E+01	1.50E+02	2.98E+02
TL208	1.90E-09	2.34E-09	2.85E-09	5.04E-09	1.09E-08	3.42E-08	2.40E-07	9.62E-07	4.26E-06	2.52E-05	9.77E-05
TL209	2.90E-07	3.65E-07	4.62E-07	8.75E-07	2.12E-06	8.13E-06	2.16E-05	7.39E-04	6.14E-03	9.18E-02	6.31E-01
PB209	1.30E-05	1.66E-05	2.10E-05	3.98E-05	9.63E-05	3.70E-04	4.16E-03	3.36E-02	2.79E-01	4.17E+00	2.87E+01
PB210	2.00E-04	2.62E-04	3.38E-04	6.69E-04	1.74E-03	7.44E-03	9.82E-02	8.53E-01	7.00E+00	9.75E+01	4.52E+02
PB211	3.90E-01	4.52E-01	5.21E-01	7.70E-01	1.31E+00	2.79E+00	9.24E+00	2.28E+01	5.22E+01	1.50E+02	2.99E+02
PB212	5.30E-09	6.52E-09	7.94E-09	1.40E-08	3.05E-08	9.52E-08	6.68E-07	2.68E-06	1.19E-05	7.02E-05	2.72E-04
PB214	2.00E-03	2.47E-03	3.02E-03	5.24E-03	1.14E-02	3.70E-02	2.92E-01	1.71E+00	1.03E+01	9.75E+01	4.52E+02
BI210	2.00E-04	2.62E-04	3.38E-04	6.69E-04	1.74E-03	7.45E-03	9.82E-02	8.53E-01	7.00E+00	9.75E+01	4.52E+02
BI211	3.90E-01	4.52E-01	5.21E-01	7.70E-01	1.31E+00	2.79E+00	9.24E+00	2.28E+01	5.22E+01	1.50E+02	2.99E+02
BI212	5.30E-09	6.52E-09	7.94E-09	1.40E-08	3.05E-08	9.52E-08	6.68E-07	2.68E-06	1.19E-05	7.02E-05	2.72E-04
BI213	1.30E-05	1.66E-05	2.10E-05	3.98E-05	9.63E-05	3.70E-04	4.16E-03	3.36E-02	2.79E-01	4.17E+00	2.87E+01
BI214	2.00E-03	2.47E-03	3.02E-03	5.24E-03	1.14E-02	3.70E-02	2.92E-01	1.71E+00	1.03E+01	9.75E+01	4.52E+02
PO210	2.00E-04	2.30E-04	2.94E-04	5.95E-04	1.74E-03	7.45E-03	9.82E-02	8.53E-01	7.00E+00	9.75E+01	4.52E+02
PO211	1.20E-03	1.36E-03	1.56E-03	2.31E-03	3.93E-03	8.37E-03	2.77E-02	6.85E-02	1.56E-01	4.51E-01	8.96E-01
PO212	3.40E-09	4.18E-09	5.09E-09	9.00E-09	1.95E-08	6.10E-08	4.28E-07	1.72E-06	7.61E-06	4.50E-05	1.74E-04
PO213	1.30E-05	1.62E-05	2.05E-05	3.89E-05	9.42E-05	3.61E-04	4.07E-03	3.29E-02	2.73E-01	4.08E+00	2.81E+01
PO214	2.00E-03	2.47E-03	3.02E-03	5.24E-03	1.14E-02	3.70E-02	2.92E-01	1.71E+00	1.03E+01	9.75E+01	4.52E+02
PO215	3.90E-01	4.52E-01	5.21E-01	7.70E-01	1.31E+00	2.79E+00	9.24E+00	2.28E+01	5.22E+01	1.50E+02	2.99E+02
PO216	5.30E-09	6.52E-09	7.94E-09	1.40E-08	3.05E-08	9.52E-08	6.68E-07	2.68E-06	1.19E-05	7.02E-05	2.72E-04
PO218	2.00E-03	2.47E-03	3.02E-03	5.24E-03	1.14E-02	3.70E-02	2.92E-01	1.71E+00	1.03E+01	9.75E+01	4.52E+02
AT217	1.30E-05	1.66E-05	2.10E-05	3.98E-05	9.63E-05	3.70E-04	4.16E-03	3.36E-02	2.79E-01	4.17E+00	2.87E+01
RN219	3.90E-01	4.52E-01	5.21E-01	7.70E-01	1.31E+00	2.79E+00	9.24E+00	2.28E+01	5.22E+01	1.50E+02	2.99E+02
RN220	5.30E-09	6.52E-09	7.94E-09	1.40E-08	3.05E-08	9.52E-08	6.68E-07	2.68E-06	1.19E-05	7.02E-05	2.72E-04
RN222	2.00E-03	2.47E-03	3.02E-03	5.24E-03	1.14E-02	3.70E-02	2.92E-01	1.71E+00	1.03E+01	9.75E+01	4.52E+02
FR221	1.30E-05	1.66E-05	2.10E-05	3.98E-05	9.63E-05	3.70E-04	4.16E-03	3.36E-02	2.79E-01	4.17E+00	2.87E+01
FR223	6.40E-03	6.32E-03	7.29E-03	1.08E-02	1.83E-02	3.90E-02	1.29E-01	3.20E-01	7.30E-01	2.11E+00	4.18E+00
RA223	3.90E-01	4.52E-01	5.21E-01	7.70E-01	1.31E+00	2.79E+00	9.24E+00	2.28E+01	5.22E+01	1.50E+02	2.99E+02
RA224	5.30E-09	6.52E-09	7.94E-09	1.40E-08	3.05E-08	9.52E-08	6.68E-07	2.68E-06	1.19E-05	7.02E-05	2.72E-04
RA225	1.30E-05	1.66E-05	2.10E-05	3.98E-05	9.63E-05	3.70E-04	4.16E-03	3.36E-02	2.79E-01	4.17E+00	2.87E+01
RA226	2.00E-03	2.47E-03	3.02E-03	5.24E-03	1.14E-02	3.70E-02	2.92E-01	1.71E+00	1.03E+01	9.75E+01	4.52E+02
RA228	8.60E-09	1.04E-08	1.25E-08	2.09E-08	4.27E-08	1.20E-07	6.68E-07	2.68E-06	1.19E-05	7.02E-05	2.72E-04
AC225	1.30E-05	1.66E-05	2.10E-05	3.98E-05	9.63E-05	3.70E-04	4.16E-03	3.36E-02	2.79E-01	4.17E+00	2.87E+01
AC227	3.90E-01	4.52E-01	5.20E-01	7.69E-01	1.31E+00	2.79E+00	9.24E+00	2.28E+01	5.22E+01	1.50E+02	2.99E+02
AC228	8.60E-09	1.04E-08	1.25E-08	2.09E-08	4.27E-08	1.20E-07	6.68E-07	2.68E-06	1.19E-05	7.02E-05	2.72E-04
TH227	3.80E-01	4.46E-01	5.14E-01	7.59E-01	1.29E+00	2.75E+00	9.11E+00	2.25E+01	5.14E+01	1.48E+02	2.95E+02
TH228	5.30E-09	6.50E-09	7.91E-09	1.40E-08	3.04E-08	9.52E-08	6.68E-07	2.68E-06	1.19E-05	7.02E-05	2.72E-04
TH229	1.30E-05	1.66E-05	2.10E-05	3.98E-05	9.63E-05	3.70E-04	4.16E-03	3.36E-02	2.79E-01	4.17E+00	2.87E+01
TH230	1.00E+00	1.17E+00	1.37E+00	2.09E+00	3.71E+00	8.47E+00	3.36E+01	1.04E+02	3.14E+02	1.14E+03	2.64E+03
TH231	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04
TH232	2.60E-08	3.04E-08	3.53E-08	5.34E-08	9.47E-08	2.19E-07	9.23E-07	3.20E-06	1.19E-05	7.02E-05	2.72E-04
TH234	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06
PA231	2.20E+00	2.50E+00	2.80E+00	3.69E+00	5.17E+00	8.13E+00	1.70E+01	3.18E+01	6.15E+01	1.50E+02	2.99E+02
PA233	1.50E+03	1.73E+03	1.97E+03	2.81E+03	4.50E+03	8.68E+03	2.43E+04	5.20E+04	1.02E+05	2.13E+05	3.12E+05
PA234M	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06
PA234	3.60E+03	3.64E+03	3.64E+03	3.64E+03	3.64E+03	3.64E+03	3.64E+03	3.64E+03	3.64E+03	3.64E+03	3.64E+03
U 233	3.40E-02	4.18E-02	5.07E-02	8.28E-02	1.62E-01	4.45E-01	2.57E+00	1.09E+01	4.49E+01	2.58E+02	8.45E+02
U 234	1.80E+04	2.05E+04	2.29E+04	3.01E+04	4.18E+04	6.38E+04	1.20E+05	1.89E+05	2.67E+05	3.28E+05	3.37E+05
U 235	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.40E+04	1.41E+04	1.42E+04	1.43E+04

U 236	8.30E+01	9.43E+01	1.06E+02	1.39E+02	1.95E+02	3.08E+02	6.44E+02	1.20E+03	2.31E+03	5.56E+03	1.08E+04
U 237	4.80E+05	9.07E+05	8.64E+05	7.48E+05	5.88E+05	3.63E+05	8.58E+04	7.73E+03	6.28E+01	3.37E-05	1.19E-15
U 238	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06	2.80E+06
NP237	1.50E+03	1.73E+03	1.97E+03	2.81E+03	4.50E+03	8.68E+03	2.43E+04	5.20E+04	1.02E+05	2.13E+05	3.12E+05
PU238	8.70E+08	8.64E+08	8.57E+08	8.37E+08	8.04E+08	7.43E+08	5.86E+08	3.95E+08	1.79E+08	1.68E+07	3.23E+05
PU239	3.30E+08	3.30E+08	3.30E+08	3.30E+08	3.30E+08	3.30E+08	3.30E+08	3.29E+08	3.28E+08	3.25E+08	3.21E+08
PU240	3.80E+08	3.80E+08	3.80E+08	3.80E+08	3.80E+08	3.79E+08	3.78E+08	3.76E+08	3.72E+08	3.61E+08	3.42E+08
PU241	3.80E+10	3.62E+10	3.45E+10	2.99E+10	2.35E+10	1.45E+10	3.43E+09	3.09E+08	2.51E+06	1.35E+00	4.77E-11
PU242	3.80E+05	3.80E+05	3.80E+05	3.80E+05	3.80E+05	3.80E+05	3.80E+05	3.80E+05	3.80E+05	3.80E+05	3.79E+05
AM241	6.70E+08	7.29E+08	7.84E+08	9.35E+08	1.14E+09	1.42E+09	1.71E+09	1.68E+09	1.44E+09	8.88E+08	3.99E+08
TOTAL	4.03E+10	3.85E+10	3.69E+10	3.24E+10	2.62E+10	1.74E+10	6.44E+09	3.09E+09	2.33E+09	1.60E+09	1.07E+09

ACTINIDES

 NUCLIDE THERMAL POWER, WATTS
 BASIS = CONT. BETON, TYP IV,NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	3.10E-14	3.58E-14	4.13E-14	6.09E-14	1.04E-13	2.21E-13	7.31E-13	1.81E-12	4.13E-12	1.19E-11	2.36E-11
TL208	1.21E-21	1.49E-21	1.81E-21	3.21E-21	6.95E-21	2.17E-20	1.52E-19	6.12E-19	2.71E-18	1.60E-17	6.21E-17
TL209	1.30E-19	1.64E-19	2.07E-19	3.93E-19	9.52E-19	3.65E-18	4.11E-17	3.32E-16	2.76E-15	4.12E-14	2.83E-13
PB209	4.04E-19	5.16E-19	6.53E-19	1.24E-18	2.99E-18	1.15E-17	1.29E-16	1.04E-15	8.67E-15	1.30E-13	8.92E-13
PB210	1.25E-18	1.64E-18	2.12E-18	4.19E-18	1.09E-17	4.66E-17	6.15E-16	5.34E-15	4.39E-14	6.11E-13	2.83E-12
PB211	3.16E-14	3.66E-14	4.22E-14	6.24E-14	1.06E-13	2.26E-13	7.48E-13	1.85E-12	4.22E-12	1.22E-11	2.42E-11
PB212	2.73E-22	3.35E-22	4.08E-22	7.22E-22	1.57E-21	4.90E-21	3.44E-20	1.38E-19	6.11E-19	3.61E-18	1.40E-17
PB214	1.72E-16	2.13E-16	2.60E-16	4.51E-16	9.82E-16	3.19E-15	2.52E-14	1.47E-13	8.87E-13	8.40E-12	3.89E-11
BI210	1.25E-17	1.63E-17	2.11E-17	4.17E-17	1.08E-16	4.64E-16	6.12E-15	5.32E-14	4.36E-13	6.08E-12	2.82E-11
BI211	4.21E-13	4.88E-13	5.62E-13	8.30E-13	1.41E-12	3.01E-12	9.96E-12	2.46E-11	5.62E-11	1.62E-10	3.22E-10
BI212	2.44E-21	3.00E-21	3.65E-21	6.45E-21	1.40E-20	4.37E-20	3.07E-19	1.23E-18	5.45E-18	3.23E-17	1.25E-16
BI213	1.48E-18	1.89E-18	2.39E-18	4.52E-18	1.09E-17	4.20E-17	4.73E-16	3.82E-15	3.17E-14	4.74E-13	3.26E-12
BI214	6.93E-16	8.55E-16	1.05E-15	1.81E-15	3.95E-15	1.28E-14	1.01E-13	5.92E-13	3.57E-12	3.38E-11	1.56E-10
PO210	1.73E-16	2.00E-16	2.55E-16	5.15E-16	1.51E-15	6.45E-15	8.51E-14	7.39E-13	6.07E-12	8.45E-11	3.91E-10
PO211	1.46E-15	1.65E-15	1.90E-15	2.81E-15	4.79E-15	1.02E-14	3.37E-14	8.34E-14	1.90E-13	5.49E-13	1.09E-12
PO212	4.88E-21	5.99E-21	7.30E-21	1.29E-20	2.80E-20	8.75E-20	6.14E-19	2.46E-18	1.09E-17	6.46E-17	2.50E-16
PO213	1.78E-17	2.22E-17	2.81E-17	5.32E-17	1.29E-16	4.94E-16	5.57E-15	4.49E-14	3.73E-13	5.58E-12	3.84E-11
PO214	2.51E-15	3.10E-15	3.79E-15	6.57E-15	1.43E-14	4.64E-14	3.67E-13	2.15E-12	1.29E-11	1.22E-10	5.67E-10
PO215	4.70E-13	5.46E-13	6.29E-13	9.28E-13	1.58E-12	3.36E-12	1.11E-11	2.75E-11	6.29E-11	1.81E-10	3.60E-10
PO216	5.67E-21	6.97E-21	8.49E-21	1.50E-20	3.26E-20	1.02E-19	7.14E-19	2.87E-18	1.27E-17	7.51E-17	2.91E-16
PO218	1.96E-15	2.42E-15	2.96E-15	5.13E-15	1.12E-14	3.62E-14	2.86E-13	1.67E-12	1.01E-11	9.55E-11	4.42E-10
AT217	1.50E-17	1.92E-17	2.42E-17	4.59E-17	1.11E-16	4.26E-16	4.80E-15	3.87E-14	3.22E-13	4.81E-12	3.31E-11
RN219	4.34E-13	5.04E-13	5.80E-13	8.57E-13	1.46E-12	3.10E-12	1.03E-11	2.54E-11	5.80E-11	1.67E-10	3.32E-10
RN220	5.44E-21	6.69E-21	8.14E-21	1.44E-20	3.12E-20	9.77E-20	6.85E-19	2.75E-18	1.22E-17	7.21E-17	2.79E-16
RN222	1.79E-15	2.21E-15	2.70E-15	4.69E-15	1.02E-14	3.31E-14	2.62E-13	1.53E-12	9.22E-12	8.73E-11	4.05E-10
FR221	1.35E-17	1.72E-17	2.17E-17	4.11E-17	9.97E-17	3.82E-16	4.31E-15	3.48E-14	2.89E-13	4.32E-12	2.97E-11
FR223	3.79E-16	4.44E-16	5.11E-16	7.55E-16	1.29E-15	2.74E-15	9.08E-15	2.24E-14	5.13E-14	1.48E-13	2.94E-13
RA223	3.74E-13	4.33E-13	4.99E-13	7.38E-13	1.26E-12	2.67E-12	8.85E-12	2.19E-11	5.00E-11	1.44E-10	2.86E-10
RA224	4.92E-21	6.04E-21	7.36E-21	1.30E-20	2.82E-20	8.83E-20	6.19E-19	2.48E-18	1.10E-17	6.51E-17	2.52E-16
RA225	2.46E-19	3.15E-19	3.98E-19	7.54E-19	1.83E-18	7.00E-18	7.89E-17	6.37E-16	5.29E-15	7.91E-14	5.44E-13
RA226	1.56E-15	1.93E-15	2.36E-15	4.09E-15	8.89E-15	2.88E-14	2.28E-13	1.33E-12	8.03E-12	7.61E-11	3.53E-10
RA228	1.79E-23	2.17E-23	2.60E-23	4.35E-23	8.88E-23	2.50E-22	1.39E-21	5.58E-21	2.47E-20	1.46E-19	5.67E-19
AC225	1.24E-17	1.58E-17	2.00E-17	3.78E-17	9.16E-17	3.51E-16	3.96E-15	3.19E-14	2.65E-13	3.97E-12	2.73E-11
AC227	5.11E-15	5.91E-15	6.81E-15	1.01E-14	1.71E-14	3.65E-14	1.21E-13	2.99E-13	6.83E-13	1.97E-12	3.91E-12
AC228	2.01E-21	2.43E-21	2.91E-21	4.88E-21	9.96E-21	2.80E-20	1.56E-19	6.26E-19	2.77E-18	1.64E-17	6.35E-17
TH227	3.74E-13	4.39E-13	5.06E-13	7.48E-13	1.27E-12	2.71E-12	8.97E-12	2.22E-11	5.07E-11	1.46E-10	2.90E-10
TH228	4.69E-21	5.75E-21	7.00E-21	1.24E-20	2.69E-20	8.42E-20	5.90E-19	2.37E-18	1.05E-17	6.21E-17	2.41E-16
TH229	1.08E-17	1.38E-17	1.74E-17	3.29E-17	7.98E-17	3.06E-16	3.45E-15	2.78E-14	2.31E-13	3.46E-12	2.38E-11
TH230	7.65E-13	8.97E-13	1.05E-12	1.59E-12	2.83E-12	6.47E-12	2.57E-11	7.97E-11	2.40E-10	8.75E-10	2.02E-09
TH231	2.12E-10	2.12E-10	2.13E-10	2.13E-10	2.13E-10	2.13E-10	2.13E-10	2.13E-10	2.13E-10	2.15E-10	2.17E-10
TH232	1.70E-20	1.99E-20	2.31E-20	3.49E-20	6.19E-20	1.43E-19	6.04E-19	2.09E-18	7.76E-18	4.59E-17	1.78E-16
TH234	3.07E-08	3.07E-08	3.07E-08	3.07E-08	3.07E-08	3.07E-08	3.07E-08	3.07E-08	3.07E-08	3.07E-08	3.07E-08
PA231	1.82E-12	2.06E-12	2.31E-12	3.04E-12	4.26E-12	6.71E-12	1.40E-11	2.63E-11	5.07E-11	1.24E-10	2.46E-10
PA233	9.21E-11	1.06E-10	1.21E-10	1.72E-10	2.76E-10	5.32E-10	1.49E-09	3.19E-09	6.28E-09	1.31E-08	1.91E-08
PA234M	3.74E-07	3.74E-07	3.74E-07	3.74E-07	3.74E-07	3.74E-07	3.74E-07	3.74E-07	3.74E-07	3.74E-07	3.74E-07
PA234	1.40E-09	1.41E-09	1.41E-09	1.41E-09	1.41E-09	1.41E-09	1.41E-09	1.41E-09	1.41E-09	1.41E-09	1.41E-09
U 233	2.68E-14	3.28E-14	3.98E-14	6.51E-14	1.27E-13	3.50E-13	2.03E-12	8.59E-12	3.53E-11	2.03E-10	6.64E-10
U 234	1.40E-08	1.59E-08	1.78E-08	2.34E-08	3.25E-08	4.96E-08	9.36E-08	1.47E-07	2.08E-07	2.55E-07	2.62E-07
U 235	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.05E-08	1.06E-08	1.07E-08

U 236	6.08E-11	6.90E-11	7.73E-11	1.02E-10	1.43E-10	2.25E-10	4.72E-10	8.80E-10	1.69E-09	4.07E-09	7.88E-09
U 237	2.46E-08	4.64E-08	4.42E-08	3.83E-08	3.01E-08	1.86E-08	4.39E-09	3.95E-10	3.21E-12	1.72E-18	6.11E-29
U 238	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.92E-06
NP237	1.19E-09	1.37E-09	1.57E-09	2.23E-09	3.57E-09	6.89E-09	1.93E-08	4.13E-08	8.13E-08	1.69E-07	2.48E-07
PU238	7.80E-04	7.74E-04	7.68E-04	7.50E-04	7.21E-04	6.66E-04	5.25E-04	3.64E-04	1.61E-04	1.50E-05	2.90E-07
PU239	2.77E-04	2.77E-04	2.77E-04	2.77E-04	2.77E-04	2.77E-04	2.77E-04	2.77E-04	2.76E-04	2.73E-04	2.69E-04
PU240	3.20E-04	3.20E-04	3.20E-04	3.20E-04	3.20E-04	3.19E-04	3.18E-04	3.17E-04	3.13E-04	3.04E-04	2.88E-04
PU241	3.17E-05	3.02E-05	2.88E-05	2.49E-05	1.96E-05	1.21E-05	2.85E-06	2.57E-07	2.09E-09	1.12E-15	3.98E-26
PU242	3.03E-07	3.03E-07	3.03E-07	3.03E-07	3.03E-07	3.03E-07	3.03E-07	3.03E-07	3.03E-07	3.03E-07	3.03E-07
AM241	6.05E-04	6.58E-04	7.08E-04	8.44E-04	1.03E-03	1.28E-03	1.54E-03	1.51E-03	1.30E-03	8.02E-04	3.60E-04
TOTAL	2.02E-03	2.06E-03	2.10E-03	2.22E-03	2.37E-03	2.56E-03	2.67E-03	2.46E-03	2.05E-03	1.40E-03	9.21E-04

FISSION PRODUCTS

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = CONT. BETON, TYP IV,NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	3.90E+07	3.69E+07	3.49E+07	2.95E+07	2.23E+07	1.27E+07	2.36E+06	1.43E+05	5.21E+02	2.54E-05	1.66E-17
SR 90	4.20E+10	4.10E+10	4.01E+10	3.73E+10	3.31E+10	2.61E+10	1.28E+10	3.89E+09	3.60E+08	2.86E+05	1.94E+00
Y 90	4.20E+10	4.10E+10	4.01E+10	3.73E+10	3.31E+10	2.61E+10	1.28E+10	3.89E+09	3.60E+08	2.86E+05	1.94E+00
ZR 95	1.50E+09	2.87E+07	5.50E+05	3.85E+00	9.90E-09	6.53E-26	0.0	0.0	0.0	0.0	0.0
NB 95	1.70E+09	6.48E+07	1.26E+06	8.56E+00	2.20E-08	1.45E-25	0.0	0.0	0.0	0.0	0.0
NB 95M	1.80E-07	2.13E+05	4.08E+03	2.86E-02	7.34E-11	4.84E-28	0.0	0.0	0.0	0.0	0.0
RU106	3.30E+10	1.66E+10	8.35E+09	1.06E+09	3.41E+07	3.53E+04	3.89E-05	4.59E-20	0.0	0.0	0.0
RH106	3.30E+10	1.66E+10	8.35E+09	1.06E+09	3.41E+07	3.53E+04	3.89E-05	4.59E-20	0.0	0.0	0.0
SB125	7.90E+09	6.15E+09	4.78E+09	2.25E+09	6.42E+08	5.21E+07	2.79E+04	9.88E-02	1.24E-12	0.0	0.0
TE125M	1.60E+09	1.50E+09	1.17E+09	5.50E+08	1.57E+08	1.27E+07	6.82E+03	2.41E-02	3.02E-13	0.0	0.0
CS134	6.00E+09	4.29E+09	3.06E+09	1.12E+09	2.08E+08	7.23E+06	3.02E+02	1.52E-05	3.86E-20	0.0	0.0
CS137	6.00E+10	5.87E+10	5.73E+10	5.35E+10	4.76E+10	3.78E+10	1.89E+10	5.96E+09	5.91E+08	5.78E+05	5.57E+00
BA137M	5.70E+10	5.55E+10	5.42E+10	5.06E+10	4.51E+10	3.58E+10	1.79E+10	5.64E+09	5.59E+08	5.47E+05	5.27E+00
CE144	4.20E+09	1.72E+09	7.08E+08	4.90E+07	5.71E+05	7.75E+01	1.94E-10	8.97E-30	0.0	0.0	0.0
PR144	4.20E+09	1.72E+09	7.08E+08	4.90E+07	5.71E+05	7.75E+01	1.94E-10	8.97E-30	0.0	0.0	0.0
PR144M	5.20E+07	2.07E+07	8.50E+06	5.88E+05	6.85E+03	9.30E-01	2.33E-12	1.08E-31	0.0	0.0	0.0
ND144	2.70E-06	3.62E-06	4.00E-06	4.24E-06	4.26E-06	4.26E-06	4.26E-06	4.26E-06	4.26E-06	4.26E-06	4.26E-06
TOTAL	2.94E+11	2.45E+11	2.19E+11	1.85E+11	1.60E+11	1.26E+11	6.24E+10	1.94E+10	1.87E+09	1.70E+06	1.47E+01

FISSION PRODUCTS

 NUCLIDE THERMAL POWER, WATTS
 BASIS = CONT. BETON, TYP IV,NB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	3.56E-08	3.37E-08	3.18E-08	2.69E-08	2.03E-08	1.16E-08	2.15E-09	1.30E-10	4.76E-13	2.32E-20	1.51E-32
SR 90	1.32E-03	1.29E-03	1.26E-03	1.17E-03	1.04E-03	8.19E-04	4.01E-04	1.22E-04	1.13E-05	8.97E-09	6.10E-14
Y 90	6.29E-03	6.15E-03	6.00E-03	5.59E-03	4.96E-03	3.91E-03	1.92E-03	5.83E-04	5.40E-05	4.28E-08	2.91E-13
ZR 95	2.05E-04	3.93E-06	7.53E-08	5.28E-13	1.35E-21	8.94E-39	0.0	0.0	0.0	0.0	0.0
NB 95	2.20E-04	8.40E-06	1.64E-07	1.11E-12	2.85E-21	1.88E-38	0.0	0.0	0.0	0.0	0.0
NB 95M	6.76E-21	8.00E-09	1.53E-10	1.07E-15	2.76E-24	1.82E-41	0.0	0.0	0.0	0.0	0.0
RU106	5.29E-05	2.66E-05	1.34E-05	1.70E-06	5.47E-08	5.65E-11	6.23E-20	7.35E-35	0.0	0.0	0.0
RH106	8.56E-03	4.30E-03	2.16E-03	2.75E-04	8.84E-06	9.14E-09	1.01E-17	1.19E-32	0.0	0.0	0.0
SB125	6.68E-04	5.20E-04	4.04E-04	1.90E-04	5.42E-05	4.41E-06	2.36E-09	8.35E-15	1.04E-25	0.0	0.0
TE125M	3.64E-05	3.40E-05	2.65E-05	1.25E-05	3.56E-06	2.89E-07	1.55E-10	5.48E-16	6.85E-27	0.0	0.0
CS134	1.65E-03	1.18E-03	8.43E-04	3.08E-04	5.73E-05	1.99E-06	8.31E-11	4.19E-18	1.06E-32	0.0	0.0
CS137	1.79E-03	1.75E-03	1.71E-03	1.60E-03	1.42E-03	1.13E-03	5.65E-04	1.78E-04	1.77E-05	1.73E-08	1.67E-13
BA137M	6.05E-03	5.89E-03	5.75E-03	5.37E-03	4.78E-03	3.80E-03	1.90E-03	5.98E-04	5.94E-05	5.81E-08	5.59E-13
CE144	7.53E-05	3.09E-05	1.27E-05	8.78E-07	1.02E-08	1.39E-12	3.48E-24	1.61E-43	0.0	0.0	0.0
PR144	8.35E-04	3.43E-04	1.41E-04	9.73E-06	1.13E-07	1.54E-11	3.86E-23	1.78E-42	0.0	0.0	0.0
PR144M	4.81E-07	1.91E-07	7.86E-08	5.43E-09	6.33E-11	8.60E-15	2.15E-26	9.95E-46	0.0	0.0	0.0
TOTAL	2.78E-02	2.15E-02	1.83E-02	1.45E-02	1.23E-02	9.66E-03	4.78E-03	1.48E-03	1.42E-04	1.27E-07	1.08E-12

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

		RADIOACTIVITY ,BECQUEREL									
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	3.35E+11	2.84E+11	2.56E+11	2.18E+11	1.86E+11	1.43E+11	6.88E+10	2.25E+10	4.20E+09	1.60E+09	1.07E+09
		THERMAL POWER ,WATTS									
	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TOTAL	3.00E-02	2.38E-02	2.06E-02	1.69E-02	1.48E-02	1.22E-02	7.45E-03	3.95E-03	2.19E-03	1.40E-03	9.21E-04

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = CONT. BETON, TYP IV,SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NA 22	2.50E+08	1.92E+08	1.47E+08	6.60E+07	1.74E+07	1.22E+06	4.12E+02	6.78E-04	1.84E-15	0.0	0.0
CA 41	5.60E+06	5.60E+06	5.60E+06	5.60E+06	5.60E+06	5.60E+06	5.60E+06	5.60E+06	5.59E+06	5.58E+06	5.55E+06
CA 45	2.10E+06	4.44E+05	9.40E+04	8.91E+02	3.78E-01	6.79E-08	3.94E-28	0.0	0.0	0.0	0.0
SC 46	2.10E+06	1.02E+05	5.00E+03	5.80E-01	1.60E-07	1.22E-20	0.0	0.0	0.0	0.0	0.0
MN 54	2.10E+06	9.35E+05	4.16E+05	3.66E+04	6.38E+02	1.94E-01	5.42E-12	1.40E-29	0.0	0.0	0.0
FE 55	1.30E+09	9.96E+08	7.63E+08	3.43E+08	9.05E+07	6.30E+06	2.12E+03	3.46E-03	9.18E-15	0.0	0.0
FE 59	2.10E+06	7.58E+03	2.73E+01	1.28E-06	7.84E-19	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	2.10E+06	5.88E+04	1.64E+03	3.60E-02	6.18E-10	1.82E-25	0.0	0.0	0.0	0.0	0.0
CO 60	4.30E+09	3.77E+09	3.31E+09	2.23E+09	1.15E+09	3.10E+08	6.00E+06	8.37E+03	1.63E-02	1.20E-19	0.0
NI 59	5.60E+06	5.60E+06	5.60E+06	5.60E+06	5.60E+06	5.60E+06	5.60E+06	5.59E+06	5.58E+06	5.55E+06	5.55E+06
NI 63	2.30E+08	2.28E+08	2.27E+08	2.22E+08	2.13E+08	1.98E+08	1.58E+08	1.08E+08	5.10E+07	5.32E+06	1.23E+05
TOTAL	6.10E+09	5.20E+09	4.46E+09	2.87E+09	1.49E+09	5.27E+08	1.75E+08	1.20E+08	6.22E+07	1.65E+07	1.12E+07

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = CONT. BRTON, TYP IV,SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
NA 22	9.56E-05	7.33E-05	5.61E-05	2.53E-05	6.67E-06	4.65E-07	1.57E-10	2.59E-16	7.03E-28	0.0	0.0
CA 41	3.83E-07	3.83E-07	3.83E-07	3.83E-07	3.83E-07	3.83E-07	3.83E-07	3.83E-07	3.83E-07	3.82E-07	3.80E-07
CA 45	2.60E-08	5.50E-09	1.16E-09	1.10E-11	4.67E-15	8.39E-22	4.87E-42	0.0	0.0	0.0	0.0
SC 46	7.14E-07	3.48E-08	1.70E-09	1.97E-13	5.44E-20	4.15E-33	0.0	0.0	0.0	0.0	0.0
MN 54	2.83E-07	1.26E-07	5.60E-08	4.93E-09	8.59E-11	2.61E-14	7.30E-25	1.88E-42	0.0	0.0	0.0
FE 55	4.83E-05	3.70E-05	2.84E-05	1.28E-05	3.36E-06	2.34E-07	7.88E-11	1.28E-16	3.41E-28	0.0	0.0
FE 59	5.29E-07	1.91E-09	6.89E-12	3.23E-19	1.98E-31	0.0	0.0	0.0	0.0	0.0	0.0
CO 58	3.40E-07	9.51E-09	2.66E-10	5.83E-15	1.00E-22	2.94E-38	0.0	0.0	0.0	0.0	0.0
CO 60	1.79E-03	1.57E-03	1.38E-03	9.29E-04	4.81E-04	1.29E-04	2.50E-06	3.49E-09	6.78E-15	4.99E-32	0.0
NI 59	9.64E-07	9.64E-07	9.64E-07	9.64E-07	9.64E-07	9.64E-07	9.64E-07	9.63E-07	9.62E-07	9.60E-07	9.56E-07
NI 63	2.47E-06	2.45E-06	2.43E-06	2.38E-06	2.29E-06	2.12E-06	1.69E-06	1.16E-06	5.48E-07	5.71E-08	1.32E-09
TOTAL	1.94E-03	1.69E-03	1.47E-03	9.71E-04	4.95E-04	1.33E-04	5.54E-06	2.51E-06	1.89E-06	1.40E-06	1.34E-06

ACTINIDES

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = CONT. BETON, TYP IV,SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	5.40E+01	6.27E+01	7.24E+01	1.08E+02	1.84E+02	3.94E+02	1.31E+03	3.25E+03	7.41E+03	2.13E+04	4.21E+04
TL208	1.30E-08	1.56E-08	1.91E-08	3.41E-08	7.44E-08	2.31E-07	1.63E-06	6.56E-06	2.91E-05	1.72E-04	6.68E-04
TL209	1.90E-06	2.47E-06	3.12E-06	5.86E-06	1.40E-05	5.25E-05	5.72E-04	4.53E-03	3.73E-02	5.54E-01	3.80E+00
PB209	8.80E-05	1.12E-04	1.42E-04	2.66E-04	6.36E-04	2.38E-03	2.60E-02	2.06E-01	1.69E+00	2.52E+01	1.73E+02
PB210	1.50E-03	1.97E-03	2.54E-03	5.08E-03	1.33E-02	5.70E-02	7.42E-01	6.41E+00	5.29E+01	7.65E+02	3.79E+03
PB211	5.40E+01	6.28E+01	7.26E+01	1.08E+02	1.85E+02	3.95E+02	1.32E+03	3.26E+03	7.43E+03	2.14E+04	4.22E+04
PB212	3.50E-08	4.35E-08	5.33E-08	9.50E-08	2.07E-07	6.44E-07	4.54E-06	1.83E-05	8.11E-05	4.80E-04	1.86E-03
PB214	1.50E-02	1.87E-02	2.29E-02	4.01E-02	8.75E-02	2.82E-01	2.20E+00	1.29E+01	7.79E+01	7.65E+02	3.79E+03
BI210	1.50E-03	1.97E-03	2.54E-03	5.08E-03	1.33E-02	5.70E-02	7.42E-01	6.41E+00	5.29E+01	7.65E+02	3.79E+03
BI211	5.40E+01	6.28E+01	7.26E+01	1.08E+02	1.85E+02	3.95E+02	1.32E+03	3.26E+03	7.43E+03	2.14E+04	4.22E+04
BI212	3.50E-08	4.35E-08	5.33E-08	9.50E-08	2.07E-07	6.44E-07	4.54E-06	1.83E-05	8.11E-05	4.80E-04	1.86E-03
BI213	8.80E-05	1.12E-04	1.42E-04	2.66E-04	6.36E-04	2.38E-03	2.60E-02	2.06E-01	1.69E+00	2.52E+01	1.73E+02
BI214	1.50E-02	1.87E-02	2.29E-02	4.01E-02	8.75E-02	2.82E-01	2.20E+00	1.29E+01	7.79E+01	7.65E+02	3.79E+03
PO210	1.50E-03	1.73E-03	2.21E-03	4.51E-03	1.33E-02	5.70E-02	7.42E-01	6.41E+00	5.29E+01	7.65E+02	3.79E+03
PO211	1.60E-01	1.89E-01	2.18E-01	3.24E-01	5.55E-01	1.19E+00	3.95E+00	9.77E+00	2.23E+01	6.41E+01	1.27E+02
PO212	2.30E-08	2.79E-08	3.42E-08	6.09E-08	1.33E-07	4.13E-07	2.91E-06	1.17E-05	5.20E-05	3.08E-04	1.19E-03
PO213	8.60E-05	1.10E-04	1.39E-04	2.60E-04	6.22E-04	2.33E-03	2.54E-02	2.02E-01	1.66E+00	2.46E+01	1.69E+02
PO214	1.50E-02	1.87E-02	2.29E-02	4.01E-02	8.75E-02	2.82E-01	2.20E+00	1.29E+01	7.79E+01	7.65E+02	3.79E+03
PO215	5.40E+01	6.28E+01	7.26E+01	1.08E+02	1.85E+02	3.95E+02	1.32E+03	3.26E+03	7.43E+03	2.14E+04	4.22E+04
PO216	3.50E-08	4.35E-08	5.33E-08	9.50E-08	2.07E-07	6.44E-07	4.54E-06	1.83E-05	8.11E-05	4.80E-04	1.86E-03
PO218	1.50E-02	1.87E-02	2.29E-02	4.01E-02	8.75E-02	2.82E-01	2.20E+00	1.29E+01	7.79E+01	7.65E+02	3.79E+03
AT217	8.80E-05	1.12E-04	1.42E-04	2.66E-04	6.36E-04	2.38E-03	2.60E-02	2.06E-01	1.69E+00	2.52E+01	1.73E+02
RN219	5.40E+01	6.28E+01	7.26E+01	1.08E+02	1.85E+02	3.95E+02	1.32E+03	3.26E+03	7.43E+03	2.14E+04	4.22E+04
RN220	3.50E-08	4.35E-08	5.33E-08	9.50E-08	2.07E-07	6.44E-07	4.54E-06	1.83E-05	8.11E-05	4.80E-04	1.86E-03
RN222	1.50E-02	1.87E-02	2.29E-02	4.01E-02	8.75E-02	2.82E-01	2.20E+00	1.29E+01	7.79E+01	7.65E+02	3.79E+03
FR221	8.80E-05	1.12E-04	1.42E-04	2.66E-04	6.36E-04	2.38E-03	2.60E-02	2.06E-01	1.69E+00	2.52E+01	1.73E+02
FR223	7.60E-01	8.78E-01	1.01E+00	1.51E+00	2.59E+00	5.53E+00	1.84E+01	4.56E+01	1.04E+02	2.99E+02	5.91E+02
RA223	5.40E+01	6.28E+01	7.26E+01	1.08E+02	1.85E+02	3.95E+02	1.32E+03	3.26E+03	7.43E+03	2.14E+04	4.22E+04
RA224	3.50E-08	4.35E-08	5.33E-08	9.50E-08	2.07E-07	6.44E-07	4.54E-06	1.83E-05	8.11E-05	4.80E-04	1.86E-03
RA225	8.80E-05	1.12E-04	1.42E-04	2.66E-04	6.36E-04	2.38E-03	2.60E-02	2.06E-01	1.69E+00	2.52E+01	1.73E+02
RA226	1.50E-02	1.87E-02	2.29E-02	4.01E-02	8.75E-02	2.82E-01	2.20E+00	1.29E+01	7.79E+01	7.65E+02	3.79E+03
RA228	5.80E-08	7.04E-08	8.47E-08	1.41E-07	2.86E-07	8.10E-07	4.54E-06	1.83E-05	8.11E-05	4.80E-04	1.86E-03
AC225	8.80E-05	1.12E-04	1.42E-04	2.66E-04	6.36E-04	2.38E-03	2.60E-02	2.06E-01	1.69E+00	2.52E+01	1.73E+02
AC227	5.40E+01	6.27E+01	7.25E+01	1.08E+02	1.85E+02	3.95E+02	1.32E+03	3.26E+03	7.43E+03	2.14E+04	4.22E+04
AC228	5.80E-08	7.04E-08	8.47E-08	1.41E-07	2.86E-07	8.10E-07	4.54E-06	1.83E-05	8.11E-05	4.80E-04	1.86E-03
TH227	5.30E+01	6.20E+01	7.16E+01	1.06E+02	1.82E+02	3.90E+02	1.30E+03	3.21E+03	7.33E+03	2.11E+04	4.16E+04
TH228	3.50E-08	4.33E-08	5.32E-08	9.49E-08	2.07E-07	6.44E-07	4.54E-06	1.83E-05	8.11E-05	4.80E-04	1.86E-03
TH229	8.80E-05	1.12E-04	1.42E-04	2.66E-04	6.36E-04	2.38E-03	2.60E-02	2.06E-01	1.69E+00	2.52E+01	1.73E+02
TH230	7.80E+00	9.15E+00	1.07E+01	1.61E+01	2.84E+01	6.42E+01	2.52E+02	7.84E+02	2.40E+03	9.21E+03	2.33E+04
TH231	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06
TH232	1.70E-07	2.00E-07	2.33E-07	3.56E-07	6.36E-07	1.48E-06	6.29E-06	2.19E-05	8.11E-05	4.80E-04	1.86E-03
TH234	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08
PA231	3.10E+02	3.53E+02	3.95E+02	5.22E+02	7.34E+02	1.16E+03	2.43E+03	4.54E+03	8.76E+03	2.14E+04	4.22E+04
PA233	9.80E+03	1.13E+04	1.28E+04	1.81E+04	2.85E+04	5.40E+04	1.48E+05	3.15E+05	6.17E+05	1.28E+06	1.88E+06
PA234M	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08
PA234	5.50E+05	5.33E+05	5.33E+05	5.33E+05	5.33E+05	5.33E+05	5.33E+05	5.33E+05	5.33E+05	5.33E+05	5.33E+05
U 233	2.30E-01	2.81E-01	3.38E-01	5.46E-01	1.05E+00	2.83E+00	1.59E+01	6.66E+01	2.72E+02	1.55E+03	5.08E+03
U 234	1.40E+05	1.58E+05	1.76E+05	2.29E+05	3.15E+05	4.78E+05	9.01E+05	1.43E+06	2.08E+06	2.83E+06	3.45E+06
U 235	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06	2.00E+06

U 236	5.60E+02	6.37E+02	7.14E+02	9.45E+02	1.33E+03	2.10E+03	4.40E+03	8.22E+03	1.58E+04	3.80E+04	7.36E+04
U 237	2.80E+06	5.25E+06	5.00E+06	4.33E+06	3.40E+06	2.10E+06	4.97E+05	4.48E+04	3.64E+02	1.95E-04	6.92E-15
U 238	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08	4.10E+08
NP237	9.80E+03	1.13E+04	1.28E+04	1.81E+04	2.85E+04	5.40E+04	1.48E+05	3.15E+05	6.17E+05	1.28E+06	1.88E+06
PU238	6.00E+09	5.96E+09	5.91E+09	5.77E+09	5.55E+09	5.13E+09	4.04E+09	2.72E+09	1.24E+09	1.16E+08	2.23E+06
PU239	2.20E+09	2.20E+09	2.20E+09	2.20E+09	2.20E+09	2.20E+09	2.20E+09	2.19E+09	2.19E+09	2.17E+09	2.14E+09
PU240	2.60E+09	2.60E+09	2.60E+09	2.60E+09	2.60E+09	2.60E+09	2.59E+09	2.57E+09	2.55E+09	2.47E+09	2.34E+09
PU241	2.20E+11	2.10E+11	2.00E+11	1.73E+11	1.36E+11	8.41E+10	1.98E+10	1.79E+09	1.45E+07	7.80E+00	2.76E-10
PU242	2.40E+06	2.40E+06	2.40E+06	2.40E+06	2.40E+06	2.40E+06	2.40E+06	2.40E+06	2.40E+06	2.40E+06	2.40E+06
AM241	4.30E+09	4.64E+09	4.96E+09	5.83E+09	7.01E+09	8.61E+09	1.03E+10	1.01E+10	8.63E+09	5.33E+09	2.39E+09
TOTAL	2.36E+11	2.26E+11	2.17E+11	1.91E+11	1.55E+11	1.04E+11	4.02E+10	2.06E+10	1.59E+10	1.13E+10	8.12E+09

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = CONT. BETON, TYP IV, SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
TL207	4.29E-12	4.97E-12	5.75E-12	8.54E-12	1.46E-11	3.13E-11	1.04E-10	2.58E-10	5.88E-10	1.69E-09	3.34E-09
TL208	8.27E-21	9.93E-21	1.22E-20	2.17E-20	4.73E-20	1.47E-19	1.04E-18	4.17E-18	1.85E-17	1.10E-16	4.25E-16
TL209	8.54E-19	1.11E-18	1.40E-18	2.63E-18	6.28E-18	2.36E-17	2.57E-16	2.04E-15	1.67E-14	2.49E-13	1.71E-12
PB209	2.74E-18	3.49E-18	4.40E-18	8.27E-18	1.98E-17	7.41E-17	8.08E-16	6.41E-15	5.26E-14	7.83E-13	5.37E-12
PB210	9.40E-18	1.23E-17	1.59E-17	3.18E-17	8.33E-17	3.57E-16	4.65E-15	4.02E-14	3.31E-13	4.79E-12	2.37E-11
PB211	4.38E-12	5.09E-12	5.88E-12	8.74E-12	1.50E-11	3.20E-11	1.07E-10	2.64E-10	6.02E-10	1.73E-09	3.42E-09
PB212	1.80E-21	2.24E-21	2.74E-21	4.89E-21	1.07E-20	3.32E-20	2.34E-19	9.41E-19	4.17E-18	2.47E-17	9.58E-17
PB214	1.29E-15	1.61E-15	1.98E-15	3.46E-15	7.54E-15	2.43E-14	1.90E-13	1.11E-12	6.71E-12	6.59E-11	3.27E-10
BI210	9.35E-17	1.23E-16	1.58E-16	3.17E-16	8.29E-16	3.55E-15	4.63E-14	4.00E-13	3.30E-12	4.77E-11	2.36E-10
BI211	5.82E-11	6.77E-11	7.83E-11	1.16E-10	1.99E-10	4.26E-10	1.42E-09	3.51E-09	8.01E-09	2.30E-08	4.55E-08
BI212	1.61E-20	2.00E-20	2.45E-20	4.36E-20	9.52E-20	2.96E-19	2.09E-18	8.40E-18	3.73E-17	2.21E-16	8.55E-16
BI213	1.00E-17	1.28E-17	1.61E-17	3.02E-17	7.22E-17	2.71E-16	2.95E-15	2.34E-14	1.92E-13	2.86E-12	1.96E-11
BI214	5.20E-15	6.46E-15	7.94E-15	1.39E-14	3.03E-14	9.77E-14	7.63E-13	4.45E-12	2.70E-11	2.65E-10	1.31E-09
PO210	1.30E-15	1.50E-15	1.91E-15	3.91E-15	1.15E-14	4.94E-14	6.43E-13	5.56E-12	4.58E-11	6.63E-10	3.28E-09
PO211	1.95E-13	2.29E-13	2.65E-13	3.94E-13	6.75E-13	1.44E-12	4.80E-12	1.19E-11	2.71E-11	7.80E-11	1.54E-10
PO212	3.30E-20	4.00E-20	4.90E-20	8.73E-20	1.90E-19	5.92E-19	4.18E-18	1.68E-17	7.46E-17	4.42E-16	1.71E-15
PO213	1.18E-16	1.50E-16	1.90E-16	3.56E-16	8.50E-16	3.19E-15	3.48E-14	2.76E-13	2.27E-12	3.37E-11	2.31E-10
PO214	1.88E-14	2.34E-14	2.88E-14	5.04E-14	1.10E-13	3.54E-13	2.76E-12	1.61E-11	9.78E-11	9.60E-10	4.76E-09
PO215	6.51E-11	7.58E-11	8.76E-11	1.30E-10	2.23E-10	4.77E-10	1.59E-09	3.93E-09	8.96E-09	2.58E-08	5.09E-08
PO216	3.75E-20	4.65E-20	5.70E-20	1.02E-19	2.22E-19	6.89E-19	4.86E-18	1.96E-17	8.68E-17	5.14E-16	1.99E-15
PO218	1.47E-14	1.83E-14	2.25E-14	3.93E-14	8.57E-14	2.76E-13	2.16E-12	1.26E-11	7.63E-11	7.49E-10	3.71E-09
AT217	1.02E-16	1.30E-16	1.63E-16	3.07E-16	7.33E-16	2.75E-15	3.00E-14	2.38E-13	1.95E-12	2.90E-11	1.99E-10
RN219	6.01E-11	6.99E-11	8.08E-11	1.20E-10	2.06E-10	4.40E-10	1.46E-09	3.62E-09	8.27E-09	2.38E-08	4.70E-08
RN220	3.59E-20	4.46E-20	5.47E-20	9.74E-20	2.13E-19	6.61E-19	4.66E-18	1.88E-17	8.32E-17	4.93E-16	1.91E-15
RN222	1.34E-14	1.67E-14	2.05E-14	3.59E-14	7.84E-14	2.53E-13	1.97E-12	1.15E-11	6.98E-11	6.85E-10	3.39E-09
FR221	9.11E-17	1.16E-16	1.47E-16	2.75E-16	6.58E-16	2.47E-15	2.69E-14	2.13E-13	1.75E-12	2.61E-11	1.79E-10
FR223	5.34E-14	6.16E-14	7.12E-14	1.06E-13	1.82E-13	3.88E-13	1.29E-12	3.20E-12	7.30E-12	2.10E-11	4.15E-11
RA223	5.17E-11	6.02E-11	6.96E-11	1.03E-10	1.77E-10	3.79E-10	1.26E-09	3.12E-09	7.12E-09	2.05E-08	4.04E-08
RA224	3.25E-20	4.03E-20	4.94E-20	8.81E-20	1.92E-19	5.98E-19	4.21E-18	1.70E-17	7.52E-17	4.45E-16	1.73E-15
RA225	1.67E-18	2.13E-18	2.69E-18	5.04E-18	1.20E-17	4.52E-17	4.93E-16	3.91E-15	3.21E-14	4.77E-13	3.27E-12
RA226	1.17E-14	1.46E-14	1.79E-14	3.13E-14	6.83E-14	2.20E-13	1.72E-12	1.00E-11	6.08E-11	5.97E-10	2.96E-09
RA228	1.21E-22	1.47E-22	1.76E-22	2.93E-22	5.95E-22	1.69E-21	9.46E-21	3.81E-20	1.69E-19	1.00E-18	3.88E-18
AC225	8.37E-17	1.07E-16	1.35E-16	2.53E-16	6.04E-16	2.27E-15	2.47E-14	1.96E-13	1.61E-12	2.39E-11	1.64E-10
AC227	7.07E-13	8.21E-13	9.49E-13	1.41E-12	2.42E-12	5.17E-12	1.72E-11	4.26E-11	9.73E-11	2.80E-10	5.53E-10
AC228	1.36E-20	1.65E-20	1.98E-20	3.29E-20	6.68E-20	1.89E-19	1.06E-18	4.27E-18	1.89E-17	1.12E-16	4.35E-16
TH227	5.22E-11	6.10E-11	7.05E-11	1.05E-10	1.80E-10	3.84E-10	1.28E-09	3.16E-09	7.22E-09	2.07E-08	4.10E-08
TH228	3.10E-20	3.83E-20	4.70E-20	8.39E-20	1.83E-19	5.70E-19	4.02E-18	1.62E-17	7.17E-17	4.25E-16	1.65E-15
TH229	7.29E-17	9.30E-17	1.17E-16	2.20E-16	5.26E-16	1.97E-15	2.15E-14	1.71E-13	1.40E-12	2.09E-11	1.43E-10
TH230	5.96E-12	6.99E-12	8.14E-12	1.23E-11	2.17E-11	4.91E-11	1.93E-10	5.99E-10	1.83E-09	7.04E-09	1.78E-08
TH231	3.04E-08	3.04E-08	3.04E-08	3.04E-08	3.04E-08	3.04E-08	3.04E-08	3.04E-08	3.04E-08	3.04E-08	3.04E-08
TH232	1.11E-19	1.31E-19	1.52E-19	2.33E-19	4.16E-19	9.69E-19	4.11E-18	1.43E-17	5.30E-17	3.14E-16	1.22E-15
TH234	4.49E-06	4.49E-06	4.49E-06	4.49E-06	4.49E-06	4.49E-06	4.49E-06	4.49E-06	4.49E-06	4.49E-06	4.49E-06
PA231	2.56E-10	2.91E-10	3.26E-10	4.31E-10	6.05E-10	9.54E-10	2.00E-09	3.74E-09	7.22E-09	1.76E-08	3.48E-08
PA233	6.01E-10	6.90E-10	7.86E-10	1.11E-09	1.75E-09	3.32E-09	9.10E-09	1.93E-08	3.79E-08	7.87E-08	1.15E-07
PA234M	5.48E-05	5.48E-05	5.48E-05	5.48E-05	5.48E-05	5.48E-05	5.48E-05	5.48E-05	5.48E-05	5.48E-05	5.48E-05
PA234	2.14E-07	2.07E-07	2.07E-07	2.07E-07	2.07E-07	2.07E-07	2.07E-07	2.07E-07	2.07E-07	2.07E-07	2.07E-07
U 233	1.81E-13	2.21E-13	2.66E-13	4.29E-13	8.25E-13	2.23E-12	1.25E-11	5.24E-11	2.14E-10	1.22E-09	4.00E-09
U 234	1.09E-07	1.23E-07	1.37E-07	1.78E-07	2.45E-07	3.72E-07	7.01E-07	1.11E-06	1.62E-06	2.20E-06	2.68E-06
U 235	1.50E-06	1.50E-06	1.50E-06	1.50E-06	1.50E-06	1.50E-06	1.50E-06	1.50E-06	1.50E-06	1.50E-06	1.50E-06

U 236	4.10E-10	4.67E-10	5.23E-10	6.92E-10	9.74E-10	1.54E-09	3.22E-09	6.02E-09	1.16E-08	2.79E-08	5.39E-08
U 237	1.43E-07	2.69E-07	2.56E-07	2.21E-07	1.74E-07	1.08E-07	2.54E-08	2.29E-09	1.86E-11	9.98E-18	3.54E-28
U 238	2.81E-04	2.81E-04	2.81E-04	2.81E-04	2.81E-04	2.81E-04	2.81E-04	2.81E-04	2.81E-04	2.81E-04	2.81E-04
NP237	7.79E-09	8.94E-09	1.02E-08	1.43E-08	2.26E-08	4.29E-08	1.18E-07	2.50E-07	4.90E-07	1.02E-06	1.49E-06
PU238	5.38E-03	5.34E-03	5.29E-03	5.17E-03	4.97E-03	4.59E-03	3.62E-03	2.44E-03	1.11E-03	1.04E-04	2.00E-06
PU239	1.85E-03	1.85E-03	1.85E-03	1.85E-03	1.85E-03	1.85E-03	1.85E-03	1.84E-03	1.84E-03	1.82E-03	1.80E-03
PU240	2.19E-03	2.19E-03	2.19E-03	2.19E-03	2.19E-03	2.19E-03	2.18E-03	2.17E-03	2.14E-03	2.08E-03	1.97E-03
PU241	1.83E-04	1.75E-04	1.67E-04	1.44E-04	1.13E-04	7.00E-05	1.65E-05	1.49E-06	1.21E-08	6.50E-15	2.30E-25
PU242	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.92E-06	1.91E-06
AM241	3.89E-03	4.19E-03	4.48E-03	5.27E-03	6.33E-03	7.78E-03	9.29E-03	9.09E-03	7.79E-03	4.82E-03	2.16E-03
TOTAL	1.38E-02	1.41E-02	1.43E-02	1.50E-02	1.58E-02	1.68E-02	1.73E-02	1.59E-02	1.32E-02	9.17E-03	6.28E-03

FISSION PRODUCTS

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = CONT. BETON, TYP IV,SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	2.30E+08	2.18E+08	2.06E+08	1.74E+08	1.31E+08	7.49E+07	1.39E+07	8.41E+05	3.07E+03	1.50E-04	9.78E-17
SR 90	2.40E+11	2.34E+11	2.29E+11	2.13E+11	1.89E+11	1.49E+11	7.31E+10	2.22E+10	2.06E+09	1.63E+06	1.11E+01
Y 90	2.40E+11	2.35E+11	2.29E+11	2.13E+11	1.89E+11	1.49E+11	7.31E+10	2.22E+10	2.06E+09	1.63E+06	1.11E+01
ZR 95	9.00E+09	1.72E+08	3.30E+06	2.31E+01	5.94E-08	3.92E-25	0.0	0.0	0.0	0.0	0.0
NB 95	1.00E+10	3.88E+08	7.58E+06	5.13E+01	1.32E-07	8.69E-25	0.0	0.0	0.0	0.0	0.0
NB 95M	1.00E-06	1.28E+06	2.45E+04	1.72E-01	4.41E-10	2.91E-27	0.0	0.0	0.0	0.0	0.0
RU106	2.40E+11	1.21E+11	6.07E+10	7.72E+09	2.48E+08	2.56E+05	2.83E-04	3.34E-19	0.0	0.0	0.0
RH106	2.40E+11	1.21E+11	6.07E+10	7.72E+09	2.48E+08	2.56E+05	2.83E-04	3.34E-19	0.0	0.0	0.0
SB125	4.90E+10	3.81E+10	2.97E+10	1.40E+10	3.98E+09	3.23E+08	1.73E+05	6.13E-01	7.67E-12	0.0	0.0
TE125M	9.90E+09	9.28E+09	7.24E+09	3.41E+09	9.72E+08	7.89E+07	4.23E+04	1.50E-01	1.87E-12	0.0	0.0
CS134	2.40E+10	2.35E+10	1.74E+10	6.34E+09	1.18E+09	4.10E+07	1.71E+03	8.63E-05	2.19E-19	0.0	0.0
CS137	3.50E+11	3.42E+11	3.34E+11	3.12E+11	2.78E+11	2.21E+11	1.10E+11	3.48E+10	3.45E+09	3.37E+06	3.25E+01
BA137M	3.30E+11	3.24E+11	3.16E+11	2.95E+11	2.63E+11	2.09E+11	1.04E+11	3.29E+10	3.26E+09	3.19E+06	3.08E+01
CE144	2.40E+10	9.86E+09	4.05E+09	2.80E+08	3.26E+06	4.43E+02	1.11E-09	5.12E-29	0.0	0.0	0.0
PR144	2.40E+10	9.86E+09	4.05E+09	2.80E+08	3.26E+06	4.43E+02	1.11E-09	5.12E-29	0.0	0.0	0.0
PR144M	2.80E+08	1.18E+08	4.85E+07	3.36E+06	3.91E+04	5.31E+00	1.33E-11	6.15E-31	0.0	0.0	0.0
ND144	1.50E-05	2.03E-05	2.24E-05	2.38E-05	2.39E-05	2.39E-05	2.39E-05	2.39E-05	2.39E-05	2.39E-05	2.39E-05
SM148	3.20E-23	3.70E-23	4.26E-23	6.29E-23	1.06E-22	2.19E-22	6.64E-22	1.50E-21	3.22E-21	8.36E-21	1.69E-20
EU152	4.10E+06	3.90E+06	3.70E+06	3.18E+06	2.46E+06	1.48E+06	3.21E+05	2.51E+04	1.54E+02	3.54E-05	3.05E-16
EU154	3.50E+06	3.23E+06	2.98E+06	2.34E+06	1.56E+06	6.99E+05	6.23E+04	1.11E+03	3.51E-01	1.11E-11	3.55E-29
GD152	5.40E-08	6.12E-08	6.80E-08	8.64E-08	1.11E-07	1.46E-07	1.87E-07	1.97E-07	1.98E-07	1.98E-07	1.98E-07
TOTAL	1.80E+12	1.47E+12	1.29E+12	1.07E+12	9.26E+11	7.28E+11	3.61E+11	1.12E+11	1.08E+10	9.83E+06	8.55E+01

FISSION PRODUCTS

 NUCLIDE THERMAL POWER, WATTS
 BASIS = CONT. BETON, TYP IV,SB

	INITIAL	.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y
H 3	2.10E-07	1.99E-07	1.88E-07	1.59E-07	1.20E-07	6.84E-08	1.27E-08	7.68E-10	2.81E-12	1.37E-19	8.93E-32
SR 90	7.53E-03	7.35E-03	7.18E-03	6.69E-03	5.94E-03	4.68E-03	2.29E-03	6.97E-04	6.46E-05	5.12E-08	3.49E-13
Y 90	3.60E-02	3.51E-02	3.43E-02	3.19E-02	2.84E-02	2.24E-02	1.09E-02	3.33E-03	3.08E-04	2.45E-07	1.66E-12
ZR 95	1.23E-03	2.36E-05	4.52E-07	3.17E-12	8.13E-21	5.36E-38	0.0	0.0	0.0	0.0	0.0
NB 95	1.30E-03	5.04E-05	9.83E-07	6.66E-12	1.71E-20	1.13E-37	0.0	0.0	0.0	0.0	0.0
NB 95M	3.76E-20	4.80E-08	9.19E-10	6.44E-15	1.65E-23	1.09E-40	0.0	0.0	0.0	0.0	0.0
RU106	3.85E-04	1.93E-04	9.73E-05	1.24E-05	3.98E-07	4.11E-10	4.53E-19	5.35E-34	0.0	0.0	0.0
RH106	6.22E-02	3.13E-02	1.57E-02	2.00E-03	6.43E-05	6.65E-08	7.34E-17	8.65E-32	0.0	0.0	0.0
SB125	4.14E-03	3.22E-03	2.51E-03	1.18E-03	3.36E-04	2.73E-05	1.46E-08	5.18E-14	6.48E-25	0.0	0.0
TE125M	2.25E-04	2.11E-04	1.64E-04	7.75E-05	2.21E-05	1.79E-06	9.61E-10	3.40E-15	4.25E-26	0.0	0.0
CS134	9.36E-03	6.69E-03	4.78E-03	3.17E-03	3.25E-04	1.13E-05	4.71E-10	2.37E-17	6.02E-32	0.0	0.0
CS137	1.05E-02	1.02E-02	9.99E-03	9.33E-03	8.31E-03	6.59E-03	3.30E-03	1.04E-03	1.03E-04	1.01E-07	9.72E-13
BA137M	3.50E-02	3.43E-02	3.36E-02	3.13E-02	2.79E-02	2.21E-02	1.11E-02	3.49E-03	3.46E-04	3.39E-07	3.26E-12
CE144	4.30E-04	1.77E-04	7.25E-05	5.02E-06	5.85E-08	7.94E-12	1.99E-23	9.19E-43	0.0	0.0	0.0
PR144	4.77E-03	1.96E-03	8.04E-04	5.56E-05	6.48E-07	8.80E-11	2.20E-22	1.02E-41	0.0	0.0	0.0
PR144M	2.59E-06	1.09E-06	4.49E-07	3.10E-08	3.62E-10	4.91E-14	1.23E-25	5.68E-45	0.0	0.0	0.0
SM148	1.03E-35	1.19E-35	1.37E-35	2.03E-35	3.42E-35	7.06E-35	2.14E-34	4.85E-34	1.04E-33	2.70E-33	5.46E-33
EU152	8.40E-07	7.99E-07	7.59E-07	6.51E-07	5.05E-07	3.03E-07	6.58E-08	5.15E-09	3.15E-11	7.25E-18	6.25E-29
EU154	8.46E-07	7.81E-07	7.20E-07	5.66E-07	3.78E-07	1.69E-07	1.51E-08	2.68E-10	8.49E-14	2.69E-24	8.57E-42
GD152	1.90E-20	2.15E-20	2.39E-20	3.04E-20	3.93E-20	5.14E-20	6.57E-20	6.94E-20	6.97E-20	6.97E-20	6.97E-20
TOTAL	1.73E-01	1.31E-01	1.09E-01	8.43E-02	7.13E-02	5.58E-02	2.76E-02	8.56E-03	8.22E-04	7.36E-07	6.25E-12

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

		RADIOACTIVITY ,BECQUEREL										
INITIAL		.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y	
TOTAL		2.04E+12	1.70E+12	1.51E+12	1.27E+12	1.08E+12	8.33E+11	4.01E+11	1.33E+11	2.67E+10	1.14E+10	8.13E+09
		THERMAL POWER ,WATTS										
INITIAL		.100E+1 Y	.200E+1 Y	.500E+1 Y	.100E+2 Y	.200E+2 Y	.500E+2 Y	.100E+3 Y	.200E+3 Y	.500E+3 Y	.100E+4 Y	
TOTAL		1.89E-01	1.47E-01	1.25E-01	1.00E-01	8.75E-02	7.28E-02	4.49E-02	2.44E-02	1.41E-02	9.17E-03	6.28E-03

A n h a n g 2:

Rechenergebnisse auf der Basis der Mobilisierungsgruppen

BEHAELTER : STAHLBLECH- UND BETONBEHAELTER
 MOBILISIERUNGSGRUPPE : SONSTIGE

60140	C 14	1.9E+11	2.0E+11	2.3E+11	1
110220	NA 22	3.0E+11	3.0E+11	3.4E+11	1
160350	S 35	1.3E+10	1.3E+10	1.5E+10	1
170360	CL 36	1.3E+10	1.4E+10	1.5E+10	1
180390	AR 39	0.0	8.2E+08	1.9E+08	1
200410	CA 41	4.1E+10	4.1E+10	4.7E+10	1
200450	CA 45	5.5E+10	5.5E+10	6.2E+10	1
210460	SC 46	4.1E+10	4.1E+10	4.7E+10	1
240510	CR 51	1.3E+10	1.3E+10	1.5E+10	1
250540	MN 54	2.2E+11	3.8E+11	5.4E+11	1
260550	FE 55	5.3E+13	7.9E+13	1.1E+14	1
260590	FE 59	5.5E+10	5.5E+10	6.2E+10	1
270580	CO 58	4.2E+10	4.2E+10	4.9E+10	1
270600	CO 60	7.5E+13	1.2E+14	1.7E+14	1
280590	NI 59	4.7E+10	5.2E+10	6.3E+10	1
280590	NI 59			3.2E+11	1*
280630	NI 63	8.0E+12	1.3E+13	1.9E+13	1
300650	ZN 65	1.4E+10	2.7E+10	4.0E+10	1
812080	TL208	1.0E+09	1.2E+09	1.4E+09	2
822100	PB210	7.3E+09	7.3E+09	8.4E+09	2
822110	PB211	5.3E+09	5.3E+09	6.0E+09	2
822120	PB212	3.0E+09	3.4E+09	4.1E+09	2
822140	PB214	2.0E+10	2.0E+10	2.2E+10	2
832100	BI210	5.3E+09	5.3E+09	6.0E+09	2
832110	BI211	5.3E+09	5.3E+09	6.0E+09	2
832120	BI212	3.0E+09	3.4E+09	4.1E+09	2
832140	BI214	2.0E+10	2.0E+10	2.2E+10	2
842100	PO210	7.1E+09	7.1E+09	8.2E+09	2
842120	PO212	1.1E+09	1.1E+09	1.2E+09	2
842160	PO216	1.1E+09	1.1E+09	1.2E+09	2
862190	RN219	5.3E+09	5.3E+09	6.0E+09	2
862200	RN220	1.1E+09	1.1E+09	1.2E+09	2
862220	RN222	1.4E+10	1.4E+10	1.6E+10	2
882230	RA223	5.3E+09	5.3E+09	6.0E+09	2
882240	RA224	3.0E+09	3.0E+09	3.4E+09	2
882260	RA226	2.0E+10	2.0E+10	2.2E+10	2
882280	RA228	3.0E+09	3.0E+09	3.4E+09	2
892270	AC227	5.3E+09	5.3E+09	6.0E+09	2
892280	AC228	3.0E+09	3.0E+09	3.4E+09	2
902270	TH227	5.3E+09	5.3E+09	6.0E+09	2
902280	TH228	3.0E+09	5.7E+09	7.7E+09	2
902300	TH230	5.3E+09	5.3E+09	6.0E+09	2
902310	TH231	6.6E+09	7.0E+09	8.2E+09	2
902320	TH232	3.0E+09	3.0E+09	3.4E+09	2
902340	TH234	1.9E+10	2.0E+10	2.2E+10	2
912310	PA231	5.3E+09	5.3E+09	6.0E+09	2
912330	PA233	2.0E+03	4.4E+07	7.0E+07	2
912341	PA234M	1.9E+10	2.0E+10	2.2E+10	2
912340	PA234	5.4E+08	5.4E+08	6.2E+08	2
922320	U 232	9.1E+01	1.7E+02	2.5E+02	2
922330	U 233	1.3E-01	2.5E-01	3.7E-01	2
922340	U 234	1.7E+10	1.7E+10	2.0E+10	2
922350	U 235	6.3E+09	6.7E+09	7.8E+09	2
922360	U 236	3.0E+08	6.8E+08	9.4E+08	2
922380	U 238	2.0E+10	2.0E+10	2.3E+10	2
932370	NP237	2.0E+03	4.4E+07	7.0E+07	2

BEHAELTER : STAHLBLECH- UND BETONBEHAELTER
 MOBILISIERUNGSGRUPPE : SONSTIGE

942380	PU238	2.6E+12	2.6E+12	2.9E+12	2
942390	PU239	9.1E+11	9.1E+11	1.0E+12	2
942400	PU240	1.1E+12	1.1E+12	1.2E+12	2
942410	PU241	1.4E+14	1.4E+14	1.6E+14	2
942420	PU242	1.0E+09	1.0E+09	1.2E+09	2
942440	PU244	2.5E-03	4.7E-03	6.8E-03	2
952410	AM241	6.2E+11	6.2E+11	7.1E+11	2
952421	AM242M	3.1E+04	5.9E+04	8.6E+04	2
952430	AM243	1.6E+05	3.1E+05	4.5E+05	2
962420	CM242	2.8E+09	5.3E+09	7.7E+09	2
962430	CM243	9.8E+04	1.8E+05	2.7E+05	2
962440	CM244	4.3E+09	8.1E+09	1.2E+10	2
10030	H 3	2.7E+11	2.7E+11	3.1E+11	3
380900	SR 90	1.4E+14	1.4E+14	1.5E+14	3
390900	Y 90	1.4E+14	1.4E+14	1.5E+14	3
400930	ZR 93	7.2E+05	1.4E+06	2.0E+06	3
400950	ZR 95	1.1E+13	1.1E+13	1.3E+13	3
410931	NB 93M	2.0E+09	3.8E+09	5.5E+09	3
410940	NB 94	3.6E+05	6.7E+05	9.8E+05	3
410950	NB 95	1.3E+13	1.3E+13	1.5E+13	3
420990	MO 99	1.3E+07	1.3E+07	1.5E+07	3
430990	TC 99	4.3E+08	5.2E+09	8.2E+09	3
430991	TC 99M	1.3E+07	1.3E+07	1.5E+07	3
441030	RU103	6.6E+08	6.6E+08	7.5E+08	3
441060	RU106	2.5E+14	2.5E+14	2.8E+14	3
451060	RH106	2.5E+14	2.5E+14	2.8E+14	3
461070	PD107	3.1E+03	5.9E+03	8.6E+03	3
471081	AG108M	0.0	2.1E+06	6.4E+05	3
471101	AG110M	8.7E+11	9.4E+11	1.1E+12	3
501260	SN126	1.6E+06	3.1E+06	4.5E+06	3
511250	SB125	5.2E+13	5.2E+13	6.0E+13	3
521251	TE125M	1.0E+13	1.1E+13	1.2E+13	3
531290	I 129	0.0	2.2E+05	3.5E+05	3
531310	I 131	1.3E+07	1.3E+07	1.5E+07	3
551340	CS134	4.3E+13	4.4E+13	5.1E+13	3
551350	CS135	1.3E+07	2.5E+07	3.7E+07	3
551350	CS135			1.9E+10	3*
551370	CS137	2.0E+14	2.0E+14	2.3E+14	3
561371	BA137M	1.8E+14	1.9E+14	2.2E+14	3
581440	CE144	3.2E+13	3.2E+13	3.7E+13	3
591440	PR144	3.2E+13	3.2E+13	3.7E+13	3
591441	PR144M	3.8E+11	3.9E+11	4.4E+11	3
611470	PM147	4.1E+11	4.2E+11	4.9E+11	3
631520	EU152	4.1E+10	2.5E+11	9.7E+10	3
631540	EU154	5.0E+10	8.2E+10	6.2E+10	3
631550	EU155	2.9E+09	3.0E+09	3.9E+09	3

BEHAELTER : STAHLBLECH- UND BETONBEHAELTER
 MOBILISIERUNGSGRUPPE : METALL

110220	NA 22	0.0	6.1E+07	5.3E+06	1
250540	MN 54	0.0	5.6E+09	3.6E+08	1
260550	FE 55	0.0	2.8E+11	1.2E+10	1
270600	CO 60	0.0	3.1E+11	4.5E+10	1
280590	NI 59	0.0	1.0E+08	1.3E+07	1
280590	NI 59			4.0E+04	1*
280630	NI 63	0.0	2.7E+10	3.8E+09	1
300650	ZN 65	0.0	5.6E+08	4.1E+07	1
822120	PB212	0.0	1.8E+08	1.7E+07	2
882240	RA224	0.0	1.8E+08	1.7E+07	2
882280	RA228	0.0	1.8E+08	1.7E+07	2
892280	AC228	0.0	1.8E+08	1.7E+07	2
902280	TH228	0.0	1.8E+08	1.7E+07	2
441060	RU106	0.0	2.9E+09	2.0E+08	3
451060	RH106	0.0	2.9E+09	2.0E+08	3
471081	AG108M	0.0	1.0E+08	1.1E+07	3
471101	AG110M	0.0	7.5E+07	3.4E+06	3
511250	SB125	0.0	2.4E+08	4.4E+07	3
521251	TE125M	0.0	2.4E+08	4.4E+07	3
551340	CS134	0.0	3.4E+09	8.2E+08	3
551350	CS135			3.6E+05	3*
551370	CS137	0.0	4.4E+09	1.1E+09	3
561371	BA137M	0.0	4.3E+09	1.1E+09	3
581440	CE144	0.0	9.4E+07	1.1E+07	3
591440	PR144	0.0	9.4E+07	1.1E+07	3
591441	PR144M	0.0	1.1E+06	1.4E+05	3
631520	EU152	0.0	1.7E+08	2.3E+07	3
631540	EU154	0.0	3.4E+08	5.9E+07	3
631550	EU155	0.0	1.6E+08	1.2E+07	3

BEHAELTER : STAHLBLECH- UND BETONBEHAELTER
 MOBILISIERUNGSGRUPPE : ZEMENT

60140	C 14	4.0E+12	2.2E+12	1.8E+12	1
110220	NA 22	4.2E+12	4.4E+12	5.0E+12	1
170360	CL 36	1.5E+09	2.7E+09	3.6E+09	1
200410	CA 41	0.0	8.9E+09	2.2E+09	1
200450	CA 45	0.0	2.5E+11	6.3E+10	1
210460	SC 46	0.0	1.0E+08	2.5E+07	1
240510	CR 51	8.6E+10	8.6E+10	9.8E+10	1
250540	MN 54	5.1E+12	4.6E+13	6.9E+13	1
260550	FE 55	1.6E+15	3.1E+15	4.5E+15	1
260590	FE 59	0.0	5.2E+09	1.3E+09	1
270580	CO 58	0.0	2.2E+10	3.6E+10	1
270600	CO 60	4.1E+14	7.2E+14	1.0E+15	1
280590	NI 59	4.8E+11	8.3E+11	1.2E+12	1
280590	NI 59			1.9E+11	1*
280630	NI 63	4.4E+13	9.0E+13	1.1E+14	1
300650	ZN 65	2.1E+12	5.2E+12	5.7E+12	1
731820	TA182	0.0	1.3E+12	2.0E+12	1
812080	TL208	8.1E+10	3.2E+11	4.8E+11	2
822100	PB210	1.5E+10	1.5E+10	1.7E+10	2
822110	PB211	9.9E+07	9.9E+07	1.1E+08	2
822120	PB212	8.1E+10	7.4E+11	1.1E+12	2
822140	PB214	2.4E+10	2.4E+10	2.8E+10	2
832100	BI210	1.4E+10	1.4E+10	1.6E+10	2
832110	BI211	9.9E+07	9.9E+07	1.1E+08	2
832120	BI212	8.1E+10	7.4E+11	1.1E+12	2
832140	BI214	2.4E+10	2.4E+10	2.8E+10	2
842100	PO210	1.5E+10	1.5E+10	1.7E+10	2
842120	PO212	2.9E+08	2.9E+08	3.3E+08	2
842160	PO216	2.9E+08	2.9E+08	3.3E+08	2
862190	RN219	9.9E+07	9.9E+07	1.1E+08	2
862200	RN220	2.9E+08	2.9E+08	3.3E+08	2
862220	RN222	1.0E+10	1.0E+10	1.2E+10	2
882230	RA223	9.9E+07	9.9E+07	1.1E+08	2
882240	RA224	8.1E+10	8.2E+10	9.3E+10	2
882260	RA226	2.4E+10	2.4E+10	2.8E+10	2
882280	RA228	9.8E+10	9.8E+10	1.1E+11	2
892270	AC227	9.9E+07	9.9E+07	1.1E+08	2
892280	AC228	8.1E+10	8.2E+10	9.3E+10	2
902270	TH227	9.9E+07	9.9E+07	1.1E+08	2
902280	TH228	8.1E+10	4.1E+12	6.5E+12	2
902300	TH230	1.4E+10	1.4E+10	1.6E+10	2
902310	TH231	1.5E+11	1.6E+11	1.9E+11	2
902320	TH232	7.0E+10	7.0E+10	8.0E+10	2
902340	TH234	2.0E+12	2.0E+12	2.3E+12	2
912310	PA231	9.9E+07	9.9E+07	1.1E+08	2
912330	PA233	8.1E+05	6.6E+10	1.1E+11	2
912341	PA234M	2.0E+12	2.0E+12	2.3E+12	2
912340	PA234	1.2E+11	1.2E+11	1.4E+11	2
922320	U 232	2.1E+04	3.5E+04	7.2E+04	2
922330	U 233	6.4E+01	1.1E+02	4.4E+07	2
922340	U 234	2.1E+11	2.2E+11	3.6E+11	2
922350	U 235	4.0E+10	5.2E+10	8.3E+10	2
922360	U 236	1.3E+10	2.5E+10	3.9E+11	2
922380	U 238	1.9E+12	1.9E+12	2.6E+12	2
932370	NP237	8.1E+05	6.6E+10	1.1E+11	2

BEHAELTER : STAHLBLECH- UND BETONBEHAELTER
 MOBILISIERUNGSGRUPPE : ZEMENT

942380	PU238	3.2E+14	2.0E+15	1.0E+16	2
942390	PU239	5.3E+13	2.5E+14	9.4E+14	2
942400	PU240	7.8E+13	3.5E+14	1.5E+15	2
942410	PU241	1.5E+16	1.5E+16	1.5E+17	2
942420	PU242	2.3E+11	1.3E+12	2.7E+12	2
942440	PU244	1.5E+00	2.5E+00	5.3E+00	2
952410	AM241	2.0E+13	2.0E+13	6.0E+14	2
952421	AM242M	1.0E+07	1.7E+07	3.6E+07	2
952430	AM243	5.9E+07	9.7E+07	2.0E+08	2
962420	CM242	4.9E+09	1.0E+10	1.9E+10	2
962430	CM243	4.5E+07	7.5E+07	1.6E+08	2
962440	CM244	6.8E+09	1.1E+10	2.2E+15	2
10030	H 3	4.7E+13	2.7E+13	2.4E+13	3
380890	SR 89	5.3E+10	5.3E+10	6.1E+10	3
380900	SR 90	1.9E+15	3.1E+15	4.0E+16	3
390900	Y 90	1.9E+15	3.1E+15	4.0E+16	3
400930	ZR 93	3.8E+07	6.9E+07	1.0E+12	3
400950	ZR 95	1.6E+14	1.6E+14	1.8E+14	3
410931	NB 93M	4.5E+10	8.9E+10	5.1E+11	3
410940	NB 94	3.6E+07	6.3E+07	7.9E+07	3
410950	NB 95	1.8E+14	1.8E+14	2.1E+14	3
430990	TC 99	2.8E+10	6.7E+12	1.9E+13	3
441060	RU106	4.0E+15	4.0E+15	7.7E+15	3
451060	RH106	4.0E+15	4.0E+15	7.7E+15	3
461070	PD107	2.6E+05	4.8E+05	6.4E+05	3
471081	AG108M	0.0	1.4E+11	3.6E+10	3
471100	AG110	0.0	6.5E+11	7.4E+11	3
471101	AG110M	5.1E+12	9.5E+12	1.4E+13	3
501260	SN126	1.3E+08	2.5E+08	3.5E+11	3
511250	SB125	7.6E+14	7.7E+14	1.8E+15	3
521251	TE125M	1.6E+14	1.6E+14	5.9E+14	3
531290	I 129	2.4E+08	4.4E+08	2.5E+13	3
551340	CS134	6.5E+14	7.2E+14	1.7E+16	3
551350	CS135	1.1E+09	2.0E+09	1.6E+11	3
551350	CS135			9.2E+10	3*
551370	CS137	3.0E+15	7.5E+15	6.6E+16	3
561371	BA137M	2.8E+15	7.0E+15	6.1E+16	3
581440	CE144	4.3E+14	4.4E+14	1.8E+15	3
591440	PR144	4.3E+14	4.4E+14	1.8E+15	3
591441	PR144M	5.2E+12	5.3E+12	2.2E+13	3
611470	PM147	1.7E+12	3.0E+12	8.5E+15	3
631520	EU152	1.2E+08	2.7E+12	5.1E+12	3
631540	EU154	2.8E+11	6.7E+11	3.7E+15	3
631550	EU155	1.3E+11	2.3E+11	3.5E+14	3
340790	SE 79			1.2E+11	3*
370870	RB 87			7.0E+04	3*
420930	MO 93			4.4E+07	1*
621510	SM151			7.4E+12	3*
962450	CM245			7.0E+10	2*
962460	CM246			2.6E+10	2*
962470	CM247			1.1E+05	2*
962480	CM248			4.8E+05	2*

BEHAELTER : STAHLBLECH- UND BETONBEHAELTER
 MOBILISIERUNGSGRUPPE : BITUMEN

110220	NA 22	1.1E+12	1.1E+12	1.2E+12	1
270600	CO 60	1.1E+13	1.1E+13	1.2E+13	1
902310	TH231	1.4E+08	1.4E+08	1.6E+08	2
902340	TH234	2.8E+10	2.8E+10	3.2E+10	2
912341	PA234M	2.8E+10	2.8E+10	3.2E+10	2
912340	PA234	3.5E+07	3.5E+07	4.0E+07	2
922350	U 235	1.4E+08	1.4E+08	1.6E+08	2
922380	U 238	2.8E+10	2.8E+10	3.2E+10	2
942360	PU236	0.0	7.4E+08	1.7E+09	2
942380	PU238	9.1E+12	2.1E+14	4.8E+14	2
942390	PU239	3.2E+12	2.5E+13	5.4E+13	2
942400	PU240	3.7E+12	3.7E+13	8.1E+13	2
942410	PU241	5.0E+14	4.4E+15	9.6E+15	2
942420	PU242	3.7E+09	9.9E+09	1.9E+10	2
952410	AM241	2.2E+12	2.2E+12	2.5E+12	2
10030	H 3	5.4E+11	5.4E+11	6.1E+11	3
380900	SR 90	4.8E+14	6.1E+14	8.6E+14	3
390900	Y 90	4.8E+14	6.1E+14	8.6E+14	3
400950	ZR 95	4.1E+13	4.1E+13	4.7E+13	3
410950	NB 95	4.6E+13	4.6E+13	5.3E+13	3
441060	RU106	8.9E+14	8.9E+14	1.0E+15	3
451060	RH106	8.9E+14	8.9E+14	1.0E+15	3
511250	SB125	1.8E+14	1.8E+14	2.1E+14	3
521251	TE125M	3.7E+13	3.7E+13	4.2E+13	3
551340	CS134	1.5E+14	1.5E+14	1.7E+14	3
551350	CS135			5.2E+10	3*
551370	CS137	6.9E+14	4.6E+15	9.8E+15	3
561371	BA137M	6.5E+14	4.3E+15	9.3E+15	3
581440	CE144	1.1E+14	1.1E+14	1.3E+14	3
591440	PR144	1.1E+14	1.1E+14	1.3E+14	3
591441	PR144M	1.3E+12	1.3E+12	1.5E+12	3

BEHAELTER : GUSSBEHAELTER
 MOBILISIERUNGSGRUPPE : SONSTIGE

60140	C 14	6.2E+11	3.2E+13	3.7E+13	1
110220	NA 22	2.8E+08	1.3E+11	2.1E+11	1
170360	CL 36	1.2E+09	2.3E+09	3.2E+09	1
200410	CA 41	0.0	9.2E+09	2.3E+09	1
200450	CA 45	0.0	2.8E+11	7.0E+10	1
210460	SC 46	0.0	5.6E+08	1.4E+08	1
250540	MN 54	1.9E+13	1.2E+14	1.1E+14	1
260550	FE 55	2.7E+15	6.1E+15	7.1E+15	1
260590	FE 59	0.0	2.6E+10	6.6E+09	1
270580	CO 58	0.0	2.2E+10	3.6E+10	1
270600	CO 60	1.1E+16	2.6E+16	3.6E+16	1
280590	NI 59	7.2E+11	1.3E+12	1.7E+12	1
280590	NI 59			1.8E+14	1*
280630	NI 63	2.1E+15	4.6E+15	6.5E+15	1
300650	ZN 65	3.3E+12	7.3E+12	6.9E+12	1
731820	TA182	0.0	1.3E+12	2.1E+12	1
862220	RN222	5.6E-03	1.1E-02	1.8E-02	2
882260	RA226	5.6E-03	1.1E-02	1.8E-02	2
882280	RA228	8.1E-05	1.6E-04	2.5E-04	2
902280	TH228	2.1E+04	4.1E+04	6.6E+04	2
902300	TH230	5.7E+00	1.1E+01	1.8E+01	2
902310	TH231	2.2E+08	2.2E+08	2.5E+08	2
902320	TH232	2.9E-04	5.7E-04	9.2E-04	2
902340	TH234	4.6E+10	4.6E+10	5.2E+10	2
912310	PA231	4.5E+00	8.8E+00	1.4E+01	2
912330	PA233	1.2E+06	2.3E+06	3.8E+06	2
912341	PA234M	4.6E+10	4.6E+10	5.2E+10	2
912340	PA234	6.2E+07	6.2E+07	7.1E+07	2
922320	U 232	3.4E+04	6.5E+04	1.0E+05	2
922330	U 233	9.7E+01	1.9E+02	3.1E+02	2
922340	U 234	1.9E+05	3.7E+05	5.9E+05	2
922350	U 235	2.2E+08	2.2E+08	2.5E+08	2
922360	U 236	8.5E+05	1.7E+06	2.7E+06	2
922380	U 238	4.6E+10	4.6E+10	5.2E+10	2
932370	NP237	1.2E+06	2.3E+06	3.8E+06	2

BEHAELTER	: GUSSBEHAELTER
MOBILISIERUNGSGRUPPE	: SONSTIGE

942380	PU238	9.5E+13	9.5E+13	1.1E+14	2
942390	PU239	5.0E+12	5.0E+12	5.8E+12	2
942400	PU240	7.3E+12	7.3E+12	8.3E+12	2
942410	PU241	1.5E+15	1.5E+15	1.7E+15	2
942420	PU242	4.4E+10	4.4E+10	5.1E+10	2
942440	PU244	2.2E+00	4.4E+00	7.1E+00	2
952410	AM241	1.5E+13	1.5E+13	1.7E+13	2
952421	AM242M	1.6E+07	3.1E+07	5.0E+07	2
952430	AM243	8.6E+07	1.7E+08	2.7E+08	2
952440	AM244	1.5E+14	1.5E+14	1.7E+14	2
962420	CM242	8.5E+09	1.8E+10	2.8E+10	2
962430	CM243	7.2E+07	1.4E+08	2.3E+08	2
962440	CM244	1.3E+10	2.4E+10	3.8E+10	2
10030	H 3	6.3E+14	1.1E+16	1.3E+16	3
380900	SR 90	1.4E+15	1.4E+15	1.6E+15	3
390900	Y 90	1.4E+15	1.4E+15	1.6E+15	3
400930	ZR 93	4.0E+08	7.0E+08	8.1E+08	3
410931	NB 93M	5.2E+10	1.1E+11	1.8E+11	3
410940	NB 94	5.7E+07	1.0E+08	1.2E+08	3
430990	TC 99	4.2E+10	7.6E+10	9.3E+10	3
441060	RU106	4.5E+14	4.5E+14	5.2E+14	3
451060	RH106	4.5E+14	4.5E+14	5.2E+14	3
461070	PD107	2.1E+05	4.1E+05	5.8E+05	3
471101	AG110M	8.6E+12	1.5E+13	1.8E+13	3
501260	SN126	1.1E+08	2.2E+08	3.1E+08	3
511250	SB125	6.8E+13	7.4E+13	8.8E+13	3
521251	TE125M	3.2E+13	3.8E+13	4.7E+13	3
531290	I 129	2.3E+08	4.4E+08	6.1E+08	3
551340	CS134	1.5E+15	1.5E+15	1.7E+15	3
551350	CS135	8.7E+08	1.7E+09	2.4E+09	3
551350	CS135			3.8E+09	3*
551370	CS137	2.3E+15	2.5E+15	3.0E+15	3
561371	BA137M	2.2E+15	2.3E+15	2.8E+15	3
581440	CE144	2.8E+14	2.8E+14	3.3E+14	3
591440	PR144	2.8E+14	2.8E+14	3.3E+14	3
591441	PR144M	3.4E+12	3.4E+12	3.9E+12	3
611470	PM147	4.0E+14	4.0E+14	4.6E+14	3
631520	EU152	9.8E+07	6.7E+13	6.3E+13	3
631540	EU154	1.5E+14	1.6E+14	1.8E+14	3
631550	EU155	9.9E+10	1.8E+11	2.6E+11	3

BEHAELTER MOBILISIERUNGSGRUPPE			: GUSSBEHAELTER : METALL		
40100	BE 10	0.0	8.8E+02	2.2E+02	1
60140	C 14	0.0	6.6E+07	1.7E+07	1
110220	NA 22	0.0	7.6E+07	2.3E+07	1
230490	V 49	0.0	1.6E+10	6.8E+09	1
250540	MN 54	0.0	3.3E+14	8.3E+13	1
260550	FE 55	1.8E+15	8.4E+15	4.9E+15	1
260590	FE 59	0.0	4.4E+12	1.1E+12	1
270580	CO 58	0.0	4.6E+12	1.1E+12	1
270600	CO 60	3.8E+16	7.1E+16	7.7E+16	1
280590	NI 59	0.0	4.5E+13	1.1E+13	1
280590	NI 59			2.0E+14	1*
280630	NI 63	4.3E+15	1.2E+16	9.8E+15	1
300650	ZN 65	0.0	3.3E+13	8.1E+12	1
822120	PB212	0.0	1.7E+08	5.1E+07	2
882240	RA224	0.0	1.7E+08	5.1E+07	2
882280	RA228	0.0	1.7E+08	5.0E+07	2
892280	AC228	0.0	1.7E+08	5.0E+07	2
902280	TH228	0.0	1.7E+08	5.1E+07	2
942380	PU238	3.0E+10	5.2E+10	5.9E+10	2
942390	PU239	2.5E+09	4.3E+09	4.9E+09	2
942400	PU240	3.9E+09	6.8E+09	7.8E+09	2
952410	AM241	7.8E+09	1.4E+10	1.6E+10	2
962420	CM242	3.7E+09	6.5E+09	7.4E+09	2
962440	CM244	2.0E+10	3.5E+10	4.0E+10	2
10030	H 3	1.7E+15	3.0E+15	3.5E+15	3
380900	SR 90	1.8E+09	3.1E+09	3.6E+09	3
390900	Y 90	1.8E+09	3.1E+09	3.6E+09	3
410940	NB 94	0.0	3.0E+09	7.4E+08	3
410950	NB 95	0.0	8.4E+07	2.1E+07	3
441060	RU106	0.0	3.2E+09	1.0E+09	3
451060	RH106	0.0	3.2E+09	1.0E+09	3
471081	AG108M	0.0	2.2E+08	6.3E+07	3
471101	AG110M	0.0	8.6E+07	2.9E+07	3
511250	SB125	0.0	7.6E+07	2.3E+07	3
521251	TE125M	0.0	7.6E+07	2.3E+07	3
551340	CS134	5.3E+09	9.5E+09	1.1E+10	3
551350	CS135			1.0E+05	3*
551370	CS137	3.6E+09	6.5E+09	7.2E+09	3
561371	BA137M	3.4E+09	6.1E+09	6.8E+09	3
581440	CE144	0.0	4.7E+07	1.5E+07	3
591440	PR144	0.0	4.7E+07	1.5E+07	3
591441	PR144M	0.0	5.6E+05	1.9E+05	3
631520	EU152	0.0	2.0E+08	5.7E+07	3
631540	EU154	0.0	2.1E+08	6.0E+07	3
631550	EU155	0.0	3.1E+08	9.3E+07	3

BEHAELTER : GUSSBEHAELTER
MOBILISIERUNGSGRUPPE : ZEMENT

KEINE NUKLIDE

BEHAELTER : GUSSBEHAELTER
 MOBILISIERUNGSGRUPPE : BITUMEN

60140	C 14	8.4E+11	1.5E+12	2.1E+12	1
110220	NA 22	1.0E+09	1.9E+09	2.4E+09	1
170360	CL 36	9.0E+09	1.7E+10	2.6E+10	1
260550	FE 55	2.8E+15	5.1E+15	7.4E+15	1
270600	CO 60	6.2E+14	1.1E+15	1.6E+15	1
280590	NI 59	8.2E+11	1.5E+12	2.1E+12	1
280630	NI 63	9.6E+13	1.8E+14	2.5E+14	1
300650	ZN 65	2.8E+12	5.0E+12	5.7E+12	1
862220	RN222	8.4E-04	1.6E-03	2.7E-03	2
882260	RA226	8.4E-04	1.6E-03	2.7E-03	2
882280	RA228	1.2E-05	2.4E-05	3.9E-05	2
902280	TH228	3.1E+03	6.1E+03	9.8E+03	2
902300	TH230	8.4E-01	1.6E+00	2.7E+00	2
902310	TH231	6.2E+03	1.2E+04	2.0E+04	2
902320	TH232	4.0E-05	7.9E-05	1.3E-04	2
902340	TH234	1.4E+05	2.6E+05	4.3E+05	2
912310	PA231	6.1E-01	1.2E+00	1.9E+00	2
912330	PA233	1.7E+05	3.2E+05	5.2E+05	2
912341	PA234M	1.4E+05	2.6E+05	4.3E+05	2
912340	PA234	1.8E+02	3.5E+02	5.7E+02	2
922320	U 232	4.5E+03	8.8E+03	1.4E+04	2
922330	U 233	1.3E+01	2.6E+01	4.3E+01	2
922340	U 234	2.8E+04	5.4E+04	8.8E+04	2
922350	U 235	6.2E+03	1.2E+04	2.0E+04	2
922360	U 236	1.2E+05	2.4E+05	3.9E+05	2
922380	U 238	1.4E+05	2.6E+05	4.3E+05	2
932370	NP237	1.7E+05	3.2E+05	5.2E+05	2
942380	PU238	1.4E+09	2.8E+09	4.4E+09	2
942390	PU239	1.9E+08	3.7E+08	5.7E+08	2
942400	PU240	3.0E+08	5.8E+08	9.2E+08	2
942410	PU241	5.3E+10	1.0E+11	1.7E+11	2
942420	PU242	1.2E+06	2.4E+06	3.9E+06	2
942440	PU244	3.3E-01	6.4E-01	1.0E+00	2
952410	AM241	4.9E+08	9.6E+08	1.5E+09	2
952421	AM242M	2.2E+06	4.2E+06	6.8E+06	2
952430	AM243	1.2E+07	2.4E+07	3.9E+07	2
962420	CM242	9.2E+08	1.8E+09	2.9E+09	2
962430	CM243	9.4E+06	1.8E+07	3.0E+07	2
962440	CM244	1.4E+09	2.7E+09	4.4E+09	2

BEHAELTER : GUSSBEHAELTER
 MOBILISIERUNGSGRUPPE : BITUMEN

10030	H 3	2.5E+11	4.9E+11	7.8E+11	3
380900	SR 90	9.2E+13	1.7E+14	2.4E+14	3
390900	Y 90	9.2E+13	1.7E+14	2.4E+14	3
400930	ZR 93	1.4E+08	2.6E+08	3.9E+08	3
410931	NB 93M	6.1E+06	1.1E+07	1.7E+07	3
410940	NB 94	5.9E+07	1.1E+08	1.3E+08	3
430990	TC 99	8.1E+10	1.5E+11	2.2E+11	3
441060	RU106	5.3E+11	9.6E+11	1.3E+12	3
451060	RH106	5.3E+11	9.6E+11	1.3E+12	3
461070	PD107	1.7E+06	3.3E+06	5.1E+06	3
471101	AG110M	6.5E+12	1.2E+13	1.3E+13	3
501260	SN126	8.8E+08	1.7E+09	2.6E+09	3
511250	SB125	3.1E+13	5.8E+13	8.6E+13	3
521251	TE125M	3.1E+13	5.8E+13	8.6E+13	3
531290	I 129	2.4E+10	4.6E+10	7.5E+10	3
551340	CS134	2.0E+14	3.6E+14	4.7E+14	3
551350	CS135	7.2E+09	1.4E+10	2.1E+10	3
551370	CS137	1.6E+15	3.1E+15	4.7E+15	3
561371	BA137M	1.5E+15	2.9E+15	4.5E+15	3
581440	CE144	7.9E+12	1.4E+13	1.8E+13	3
591440	PR144	7.9E+12	1.4E+13	1.8E+13	3
591441	PR144M	9.6E+10	1.7E+11	2.2E+11	3
611470	PM147	5.2E+12	9.7E+12	1.4E+13	3
631520	EU152	6.9E+08	1.3E+09	2.0E+09	3
631540	EU154	1.3E+12	2.4E+12	3.7E+12	3
631550	EU155	5.2E+11	9.7E+11	1.5E+12	3

Tab. 42 - 45: Kumuliertes Gesamtinventar im Endlager Konrad
für den Zeitraum 1 a bis 10⁷ a nach Beendigung
der Einlagerung

NUCLIDE CONCENTRATIONS, GRAM ATOMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
BE 10	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07
B 10	0.0	5.76E-14	1.15E-13	1.73E-13	2.88E-13	4.03E-13	4.90E-13	5.76E-13	1.15E-12	1.73E-12	2.88E-12
C 14	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.58E+01	3.57E+01
N 14	0.0	4.35E-03	8.70E-03	1.30E-02	2.17E-02	3.04E-02	3.69E-02	4.35E-02	8.69E-02	1.30E-01	2.17E-01
NE 22	0.0	3.50E-04	6.17E-04	8.23E-04	1.10E-03	1.26E-03	1.34E-03	1.39E-03	1.49E-03	1.49E-03	1.49E-03
NA 22	1.49E-03	1.15E-03	8.78E-04	6.72E-04	3.95E-04	2.32E-04	1.55E-04	1.04E-04	7.27E-06	5.06E-07	2.46E-09
S 35	2.73E-07	1.54E-08	8.67E-10	4.89E-11	1.55E-13	4.93E-16	6.59E-18	8.81E-20	2.84E-32	9.16E-45	0.0
S 36	0.0	1.09E-07	2.19E-07	3.28E-07	5.47E-07	7.66E-07	9.31E-07	1.09E-06	2.19E-06	3.28E-06	5.47E-06
CL 35	0.0	2.58E-07	2.72E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07
CL 36	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00
AR 36	0.0	5.65E-06	1.13E-05	1.70E-05	2.83E-05	3.96E-05	4.81E-05	5.65E-05	1.13E-04	1.70E-04	2.83E-04
AR 39	2.01E-05	2.01E-05	2.00E-05	2.00E-05	1.99E-05	1.98E-05	1.97E-05	1.96E-05	1.91E-05	1.86E-05	1.77E-05
K 39	0.0	5.18E-08	1.03E-07	1.55E-07	2.58E-07	3.60E-07	4.36E-07	5.12E-07	1.01E-06	1.50E-06	2.43E-06
K 41	0.0	7.86E-06	1.57E-05	2.36E-05	3.93E-05	5.50E-05	6.68E-05	7.86E-05	1.57E-04	2.36E-04	3.93E-04
CA 41	9.19E-01	9.19E-01	9.19E-01	9.19E-01	9.18E-01	9.18E-01	9.18E-01	9.18E-01	9.18E-01	9.18E-01	9.18E-01
CA 45	6.75E-06	1.43E-06	3.02E-07	6.39E-08	2.86E-09	1.28E-10	1.25E-11	1.21E-12	2.18E-19	3.92E-26	1.26E-39
SC 45	0.0	5.32E-06	6.44E-06	6.68E-06	6.74E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06
SC 46	8.15E-07	3.98E-08	1.94E-09	9.46E-11	2.25E-13	5.35E-16	5.77E-18	6.21E-20	4.73E-33	3.60E-46	0.0
TI 46	0.0	7.75E-07	8.13E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07
TI 49	0.0	2.49E-07	3.64E-07	4.18E-07	4.54E-07	4.62E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07
V 49	4.64E-07	2.16E-07	1.00E-07	4.65E-08	1.00E-08	2.16E-09	6.84E-10	2.17E-10	1.01E-13	4.71E-17	1.02E-23
V 51	0.0	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07
CR 51	6.31E-07	6.80E-11	7.34E-15	7.91E-19	9.20E-27	1.07E-34	1.20E-40	1.34E-46	0.0	0.0	0.0
CR 54	0.0	9.34E-03	1.35E-02	1.53E-02	1.65E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02
MN 54	1.68E-02	7.48E-03	3.33E-03	1.48E-03	2.93E-04	5.80E-05	1.72E-05	5.11E-06	1.55E-09	4.71E-13	4.34E-20
MN 55	0.0	1.24E+00	2.19E+00	2.92E+00	3.91E+00	4.49E+00	4.76E+00	4.94E+00	5.28E+00	5.31E+00	5.31E+00
FE 55	5.31E+00	4.07E+00	3.11E+00	2.39E+00	1.40E+00	8.21E-01	5.51E-01	3.69E-01	2.57E-02	1.79E-03	8.65E-06
FE 58	0.0	1.71E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05
FE 59	1.12E-05	4.03E-08	1.45E-10	5.25E-13	6.83E-18	8.89E-23	1.93E-26	4.17E-30	0.0	0.0	0.0
CO 58	1.76E-05	4.92E-07	1.38E-08	3.85E-10	3.01E-13	2.36E-16	1.10E-18	5.17E-21	1.52E-36	4.47E-52	0.0
CO 59	0.0	2.36E-02	4.72E-02	7.07E-02	1.18E-01	1.65E-01	2.00E-01	2.36E-01	4.71E-01	7.07E-01	1.18E+00
CO 60	6.37E+01	5.59E+01	4.90E+01	4.30E+01	3.30E+01	2.54E+01	2.08E+01	1.71E+01	4.59E+00	1.23E+00	8.89E-02
NI 59	2.72E+03	2.72E+03	2.72E+03	2.72E+03	2.72E+03	2.72E+03	2.72E+03	2.72E+03	2.72E+03	2.72E+03	2.72E+03
NI 60	0.0	7.85E+00	1.47E+01	2.08E+01	3.07E+01	3.84E+01	4.29E+01	4.66E+01	5.91E+01	6.25E+01	6.37E+01
NI 63	2.64E+02	2.62E+02	2.60E+02	2.58E+02	2.55E+02	2.51E+02	2.48E+02	2.45E+02	2.27E+02	2.11E+02	1.81E+02
CU 63	0.0	1.98E+00	3.95E+00	5.91E+00	9.77E+00	1.36E+01	1.64E+01	1.92E+01	3.70E+01	5.35E+01	8.29E+01
CU 65	0.0	8.48E-04	1.15E-03	1.25E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03
ZN 65	1.31E-03	4.65E-04	1.65E-04	5.83E-05	7.32E-06	9.18E-07	1.93E-07	4.08E-08	1.27E-12	3.94E-17	3.80E-26
NB 93	0.0	2.30E-09	4.61E-09	6.91E-09	1.15E-08	1.61E-08	1.96E-08	2.30E-08	4.60E-08	6.89E-08	1.15E-07
MO 93	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.15E-05
TA182	9.76E-05	1.08E-05	1.20E-06	1.32E-07	1.62E-09	1.99E-11	7.32E-13	2.70E-14	7.45E-24	2.06E-33	1.57E-52
W 182	0.0	8.68E-05	9.64E-05	9.75E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05
TOTAL	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03

LIGHT ELEMENTS

NUCLIDE CONCENTRATIONS, GRAMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
BE 10	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06
B 10	0.0	5.76E-13	1.15E-12	1.73E-12	2.88E-12	4.03E-12	4.90E-12	5.76E-12	1.15E-11	1.73E-11	2.88E-11
C 14	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02
N 14	0.0	6.09E-02	1.22E-01	1.83E-01	3.04E-01	4.26E-01	5.17E-01	6.08E-01	1.22E+00	1.82E+00	3.03E+00
NE 22	0.0	7.69E-03	1.36E-02	1.81E-02	2.42E-02	2.78E-02	2.95E-02	3.06E-02	3.27E-02	3.29E-02	3.29E-02
NA 22	3.29E-02	2.52E-02	1.93E-02	1.48E-02	8.68E-03	5.10E-03	3.42E-03	2.29E-03	1.60E-04	1.11E-05	6.42E-08
S 36	9.56E-06	5.39E-07	3.04E-08	1.71E-09	5.43E-12	1.72E-14	2.31E-16	3.08E-18	9.94E-31	3.21E-43	0.0
S 36	0.0	3.94E-06	7.88E-06	1.18E-05	1.97E-05	2.76E-05	3.35E-05	3.94E-05	7.88E-05	1.18E-04	1.97E-04
CL 35	0.0	9.02E-06	9.53E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06
CL 36	9.01E+01	9.01E+01	9.01E+01	9.01E+01	9.01E+01	9.01E+01	9.01E+01	9.01E+01	9.01E+01	9.01E+01	9.01E+01
AR 36	0.0	2.04E-04	4.07E-04	6.11E-04	1.02E-03	1.42E-03	1.73E-03	2.04E-03	4.07E-03	6.11E-03	1.02E-02
AR 39	7.85E-04	7.83E-04	7.81E-04	7.79E-04	7.75E-04	7.71E-04	7.68E-04	7.65E-04	7.46E-04	7.27E-04	6.90E-04
K 39	0.0	2.02E-06	4.04E-06	6.04E-06	1.00E-05	1.40E-05	1.70E-05	2.00E-05	3.94E-05	5.84E-05	9.49E-05
K 41	0.0	3.22E-04	6.44E-04	9.67E-04	1.61E-03	2.26E-03	2.74E-03	3.22E-03	6.44E-03	9.66E-03	1.61E-02
CA 41	3.77E+01	3.77E+01	3.77E+01	3.77E+01	3.77E+01	3.77E+01	3.77E+01	3.77E+01	3.77E+01	3.76E+01	3.76E+01
CA 45	3.04E-04	6.42E-05	1.36E-05	2.88E-06	1.29E-07	5.76E-09	5.61E-10	5.46E-11	9.81E-18	1.76E-24	5.69E-38
SC 46	0.0	2.39E-04	2.90E-04	3.01E-04	3.03E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04
SC 46	3.75E-05	1.83E-06	8.92E-08	4.35E-09	1.04E-11	2.46E-14	2.65E-16	2.86E-18	2.18E-31	1.66E-44	0.0
TI 46	0.0	3.57E-05	3.74E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05
TI 49	0.0	1.22E-05	1.78E-05	2.05E-05	2.23E-05	2.27E-05	2.27E-05	2.27E-05	2.28E-05	2.28E-05	2.28E-05
V 49	2.28E-05	1.06E-05	4.91E-06	2.28E-06	4.91E-07	1.06E-07	3.35E-08	1.06E-08	4.95E-12	2.31E-15	5.02E-22
V 51	0.0	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05
CR 51	3.22E-05	3.47E-09	3.74E-13	4.03E-17	4.69E-25	5.46E-33	6.11E-39	6.84E-45	0.0	0.0	0.0
CR 54	0.0	5.04E-01	7.28E-01	8.28E-01	8.92E-01	9.05E-01	9.07E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01
MN 54	9.08E-01	4.04E-01	1.80E-01	8.00E-02	1.58E-02	3.13E-03	9.29E-04	2.76E-04	8.37E-08	2.54E-11	2.34E-18
MN 55	0.0	6.83E+01	1.21E+02	1.61E+02	2.15E+02	2.47E+02	2.62E+02	2.72E+02	2.90E+02	2.92E+02	2.92E+02
FE 55	2.92E+02	2.24E+02	1.71E+02	1.31E+02	7.70E+01	4.52E+01	3.03E+01	2.03E+01	1.41E+00	9.83E-02	4.76E-04
FE 58	0.0	9.91E-04	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03
FE 59	6.59E-04	2.38E-06	8.58E-09	3.10E-11	4.03E-16	5.24E-21	1.14E-24	2.46E-28	0.0	0.0	0.0
CO 58	1.02E-03	2.85E-05	7.98E-07	2.23E-08	1.75E-11	1.37E-14	6.41E-17	3.00E-19	8.82E-35	2.59E-50	0.0
CO 59	0.0	1.39E+00	2.78E+00	4.17E+00	6.96E+00	9.74E+00	1.18E+01	1.39E+01	2.78E+01	4.17E+01	6.95E+01
CO 60	3.82E+03	3.35E+03	2.94E+03	2.58E+03	1.98E+03	1.52E+03	1.25E+03	1.03E+03	2.76E+02	7.40E+01	5.33E+00
NI 59	1.61E+05	1.61E+05	1.61E+05	1.61E+05	1.61E+05	1.61E+05	1.61E+05	1.61E+05	1.61E+05	1.61E+05	1.61E+05
NI 60	0.0	4.71E+02	8.84E+02	1.25E+03	1.84E+03	2.30E+03	2.57E+03	2.80E+03	3.55E+03	3.75E+03	3.82E+03
NI 63	1.67E+04	1.65E+04	1.64E+04	1.63E+04	1.60E+04	1.58E+04	1.56E+04	1.54E+04	1.43E+04	1.33E+04	1.14E+04
CU 63	0.0	1.25E+02	2.49E+02	3.72E+02	6.15E+02	8.55E+02	1.03E+03	1.21E+03	2.33E+03	3.37E+03	5.23E+03
CU 65	0.0	5.51E-02	7.46E-02	8.15E-02	8.48E-02	8.52E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02
ZN 66	8.53E-02	3.02E-02	1.07E-02	3.79E-03	4.76E-04	5.97E-05	1.26E-05	2.65E-06	8.24E-11	2.56E-15	2.47E-24
NB 93	0.0	2.14E-07	4.29E-07	6.43E-07	1.07E-06	1.50E-06	1.82E-06	2.14E-06	4.28E-06	6.41E-06	1.07E-05
MO 93	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.07E-03
TA182	1.78E-02	1.97E-03	2.18E-04	2.41E-05	2.95E-07	3.62E-09	1.33E-10	4.91E-12	1.36E-21	3.74E-31	2.86E-50
W 182	0.0	1.58E-02	1.75E-02	1.77E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02
TOTAL	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
BE 10	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03
C 14	8.30E+13	8.30E+13	8.30E+13	8.30E+13	8.30E+13	8.30E+13	8.29E+13	8.29E+13	8.28E+13	8.27E+13	8.25E+13
NA 22	7.60E+12	5.83E+12	4.46E+12	3.42E+12	2.01E+12	1.18E+12	7.90E+11	5.30E+11	3.70E+10	2.58E+09	1.25E+07
S 35	1.50E+10	8.46E+08	4.76E+07	2.68E+06	8.52E+03	2.71E+01	3.62E-01	4.84E-03	1.66E-15	5.03E-28	0.0
CL 36	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11
AR 39	9.90E+08	9.88E+08	9.85E+08	9.83E+08	9.78E+08	9.73E+08	9.69E+08	9.65E+08	9.41E+08	9.17E+08	8.71E+08
CA 41	1.50E+11	1.50E+11	1.50E+11	1.50E+11	1.50E+11	1.50E+11	1.50E+11	1.50E+11	1.50E+11	1.50E+11	1.50E+11
CA 45	2.00E+11	4.23E+10	8.96E+09	1.89E+09	8.48E+07	3.80E+06	3.70E+05	3.60E+04	6.46E-03	1.16E-09	3.75E-23
SC 46	4.70E+10	2.29E+09	1.12E+08	5.46E+06	1.30E+04	3.09E+01	3.33E-01	3.58E-03	2.73E-16	2.08E-29	0.0
V 49	6.80E+09	3.16E+09	1.47E+09	6.81E+08	1.47E+08	3.17E+07	1.00E+07	3.17E+06	1.48E+03	6.90E-01	1.50E-07
CR 51	1.10E+11	1.19E+07	1.28E+03	1.38E-01	1.60E-09	1.87E-17	2.09E-23	2.34E-29	0.0	0.0	0.0
MN 54	2.60E+14	1.16E+14	5.15E+13	2.29E+13	4.53E+12	8.97E+11	2.66E+11	7.90E+10	2.40E+07	7.28E+03	6.72E-04
FE 55	2.70E+16	2.07E+16	1.59E+16	1.21E+16	7.12E+15	4.18E+15	2.80E+15	1.88E+15	1.31E+14	9.10E+12	4.40E+10
FE 59	1.20E+12	4.33E+09	1.56E+07	5.64E+04	7.34E-01	9.55E-06	2.07E-09	4.48E-13	0.0	0.0	0.0
CO 58	1.20E+12	3.36E+10	9.40E+08	2.63E+07	2.06E+04	1.61E+01	7.54E-02	3.53E-04	1.04E-19	3.05E-35	0.0
CO 60	1.60E+17	1.40E+17	1.23E+17	1.08E+17	8.29E+16	6.38E+16	5.23E+16	4.30E+16	1.16E+16	3.10E+15	2.23E+14
NI 59	4.50E+14	4.50E+14	4.50E+14	4.50E+14	4.50E+14	4.50E+14	4.50E+14	4.50E+14	4.50E+14	4.50E+14	4.50E+14
NI 63	3.80E+16	3.77E+16	3.74E+16	3.72E+16	3.66E+16	3.61E+16	3.57E+16	3.53E+16	3.27E+16	3.03E+16	2.61E+16
ZN 65	2.60E+13	9.21E+12	3.26E+12	1.16E+12	1.45E+11	1.82E+10	3.83E+09	8.08E+08	2.51E+04	7.80E-01	7.54E-10
MO 93	4.40E+07	4.40E+07	4.40E+07	4.40E+07	4.40E+07	4.40E+07	4.39E+07	4.39E+07	4.38E+07	4.38E+07	4.36E+07
TA182	4.10E+12	4.54E+11	5.03E+10	5.56E+09	6.82E+07	8.35E+05	3.08E+04	1.13E+03	3.13E-07	8.65E-17	6.60E-36
TOTAL	2.26E+17	1.99E+17	1.77E+17	1.58E+17	1.27E+17	1.05E+17	9.13E+16	8.06E+16	4.49E+16	3.40E+16	2.68E+16

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
BE 10	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11
C 14	6.58E-01	6.58E-01	6.58E-01	6.58E-01	6.58E-01	6.58E-01	6.58E-01	6.58E-01	6.57E-01	6.56E-01	6.55E-01
NA 22	2.91E+00	2.23E+00	1.71E+00	1.31E+00	7.68E-01	4.51E-01	3.02E-01	2.03E-01	1.41E-02	9.85E-04	4.79E-06
S 35	4.02E-04	2.27E-05	1.28E-06	7.20E-08	2.29E-10	7.25E-13	9.70E-15	1.30E-16	4.18E-29	1.35E-41	0.0
CL 36	4.35E-03	4.35E-03	4.35E-03	4.35E-03	4.35E-03	4.35E-03	4.35E-03	4.35E-03	4.35E-03	4.35E-03	4.35E-03
AR 39	8.96E-05	8.94E-05	8.92E-05	8.90E-05	8.85E-05	8.80E-05	8.77E-05	8.74E-05	8.51E-05	8.30E-05	7.88E-05
CA 41	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02
CA 45	2.47E-03	5.24E-04	1.11E-04	2.34E-05	1.05E-06	4.70E-08	4.57E-09	4.45E-10	7.99E-17	1.44E-23	4.64E-37
SC 46	1.60E-02	7.80E-04	3.80E-05	1.85E-06	4.41E-09	1.05E-11	1.13E-13	1.22E-15	9.28E-29	7.07E-42	0.0
V 49	4.69E-06	2.18E-06	1.01E-06	4.69E-07	1.01E-07	2.18E-08	6.91E-09	2.19E-09	1.02E-12	4.75E-16	1.03E-22
CR 51	6.36E-04	6.86E-08	7.40E-12	7.98E-16	9.28E-24	1.08E-31	1.21E-37	1.35E-43	0.0	0.0	0.0
MN 54	3.50E+01	1.56E+01	6.93E+00	3.08E+00	6.10E-01	1.21E-01	3.58E-02	1.06E-02	3.23E-06	9.80E-10	9.04E-17
FE 55	1.00E+03	7.69E+02	5.89E+02	4.51E+02	2.65E+02	1.56E+02	1.04E+02	6.98E+01	4.86E+00	3.38E-01	1.64E-03
FE 59	3.03E-01	1.09E-03	3.94E-06	1.42E-08	1.85E-13	2.41E-18	5.21E-22	1.13E-25	0.0	0.0	0.0
CO 58	1.94E-01	5.44E-03	1.52E-04	4.26E-06	3.33E-09	2.61E-12	1.22E-14	5.71E-17	1.68E-32	4.94E-48	0.0
CO 60	6.67E+04	5.85E+04	5.13E+04	4.50E+04	3.46E+04	2.66E+04	2.18E+04	1.79E+04	4.81E+03	1.29E+03	9.30E+01
NI 59	7.75E+01	7.75E+01	7.75E+01	7.75E+01	7.75E+01	7.75E+01	7.75E+01	7.75E+01	7.74E+01	7.74E+01	7.74E+01
NI 63	4.08E+02	4.05E+02	4.02E+02	3.99E+02	3.93E+02	3.87E+02	3.83E+02	3.78E+02	3.51E+02	3.26E+02	2.80E+02
ZN 65	2.46E+00	8.72E-01	3.09E-01	1.09E-01	1.37E-02	1.72E-03	3.63E-04	7.65E-05	2.38E-09	7.39E-14	7.14E-23
MO 93	1.11E-07	1.11E-07	1.11E-07	1.11E-07	1.11E-07	1.11E-07	1.11E-07	1.11E-07	1.11E-07	1.11E-07	1.10E-07
TA182	9.87E-01	1.09E-01	1.21E-02	1.34E-03	1.64E-05	2.01E-07	7.40E-09	2.73E-10	7.63E-20	2.08E-29	1.59E-48
TOTAL	6.82E+04	5.98E+04	5.24E+04	4.59E+04	3.53E+04	2.72E+04	2.24E+04	1.84E+04	5.24E+03	1.69E+03	4.51E+02

ACTINIDES

NUCLIDE CONCENTRATIONS, GRAM ATOMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
HE 4	0.0	1.04E+00	2.09E+00	3.14E+00	5.25E+00	7.37E+00	8.97E+00	1.06E+01	2.13E+01	3.18E+01	5.21E+01
TL207	7.54E-12	1.16E-11	1.16E-11	1.16E-11	1.16E-11	1.16E-11	1.16E-11	1.17E-11	1.17E-11	1.17E-11	1.17E-11
TL208	2.74E-10	7.78E-10	5.55E-10	3.99E-10	2.15E-10	1.25E-10	8.95E-11	6.86E-11	3.86E-11	3.70E-11	3.65E-11
TL209	6.32E-21	3.69E-20	6.80E-20	9.97E-20	1.65E-19	2.32E-19	2.84E-19	3.37E-19	7.23E-19	1.17E-18	2.25E-18
PB206	0.0	4.39E-06	8.84E-06	1.34E-05	2.27E-05	3.23E-05	3.97E-05	4.73E-05	1.02E-04	1.62E-04	2.91E-04
PB207	0.0	8.93E-07	1.79E-06	2.68E-06	4.46E-06	6.25E-06	7.59E-06	8.92E-06	1.79E-05	2.68E-05	4.47E-05
PB208	0.0	3.02E-04	5.20E-04	6.77E-04	8.73E-04	9.82E-04	1.03E-03	1.07E-03	1.23E-03	1.35E-03	1.61E-03
PB209	2.62E-17	1.51E-16	2.78E-16	4.08E-16	6.74E-16	9.49E-16	1.16E-15	1.38E-15	2.96E-15	4.77E-15	9.19E-15
PB210	1.40E-04	1.43E-04	1.46E-04	1.48E-04	1.54E-04	1.59E-04	1.62E-04	1.65E-04	1.84E-04	1.98E-04	2.14E-04
PB211	8.82E-11	8.84E-11	8.84E-11	8.84E-11	8.84E-11	8.84E-11	8.84E-11	8.85E-11	8.86E-11	8.86E-11	8.88E-11
PB212	1.38E-07	4.51E-07	3.21E-07	2.31E-07	1.25E-07	7.25E-08	5.18E-08	3.97E-08	2.24E-08	2.14E-08	2.12E-08
PB214	5.39E-10	5.39E-10	5.39E-10	5.39E-10	5.39E-10	5.38E-10	5.38E-10	5.38E-10	5.37E-10	5.35E-10	5.33E-10
BI209	0.0	1.52E-13	5.35E-13	1.15E-12	3.12E-12	6.08E-12	8.97E-12	1.25E-11	5.19E-11	1.23E-10	3.76E-10
BI210	8.19E-08	8.79E-08	8.97E-08	9.14E-08	9.46E-08	9.77E-08	9.98E-08	1.02E-07	1.13E-07	1.22E-07	1.32E-07
BI211	5.20E-12	5.22E-12	5.22E-12	5.22E-12	5.22E-12	5.22E-12	5.22E-12	5.22E-12	5.22E-12	5.23E-12	5.24E-12
BI212	1.31E-08	4.28E-08	3.05E-08	2.19E-08	1.18E-08	6.88E-09	4.92E-09	3.77E-09	2.12E-09	2.03E-09	2.01E-09
BI213	6.04E-18	3.48E-17	6.42E-17	9.40E-17	1.55E-16	2.19E-16	2.68E-16	3.18E-16	6.82E-16	1.10E-15	2.12E-15
BI214	4.00E-10	4.00E-10	4.00E-10	4.00E-10	4.00E-10	4.00E-10	4.00E-10	3.99E-10	3.99E-10	3.98E-10	3.96E-10
PO210	2.38E-06	2.38E-06	2.42E-06	2.47E-06	2.57E-06	2.65E-06	2.71E-06	2.76E-06	3.13E-06	3.36E-06	3.64E-06
PO211	4.29E-17	6.86E-17	6.86E-17	6.86E-17	6.86E-17	6.86E-17	6.86E-17	6.86E-17	6.86E-17	6.87E-17	6.89E-17
PO212	1.80E-19	2.26E-18	1.61E-18	1.16E-18	6.25E-19	3.64E-19	2.60E-19	1.99E-19	1.12E-19	1.08E-19	1.06E-19
PO213	9.06E-27	5.22E-26	9.62E-26	1.41E-25	2.33E-25	3.28E-25	4.01E-25	4.77E-25	1.02E-24	1.65E-24	3.18E-24
PO214	3.46E-17	5.51E-17	5.51E-17	5.51E-17	5.50E-17	5.50E-17	5.50E-17	5.50E-17	5.48E-17	5.47E-17	5.44E-17
PO215	4.69E-17	7.27E-17	7.27E-17	7.27E-17	7.27E-17	7.27E-17	7.27E-17	7.27E-17	7.27E-17	7.28E-17	7.30E-17
PO216	1.40E-13	1.77E-12	1.26E-12	9.06E-13	4.88E-13	2.84E-13	2.03E-13	1.56E-13	8.76E-14	8.39E-14	8.28E-14
PO218	3.86E-11	6.14E-11	6.13E-11	6.13E-11	6.13E-11	6.13E-11	6.12E-11	6.12E-11	6.11E-11	6.09E-11	6.06E-11
AT217	7.12E-23	4.11E-22	7.57E-22	1.11E-21	1.83E-21	2.58E-21	3.16E-21	3.75E-21	8.04E-21	1.30E-20	2.50E-20
RN219	1.61E-13	1.62E-13	1.62E-13	1.62E-13	1.62E-13	1.62E-13	1.62E-13	1.62E-13	1.62E-13	1.62E-13	1.62E-13
RN220	5.19E-11	6.54E-10	4.67E-10	3.36E-10	1.81E-10	1.05E-10	7.63E-11	5.77E-11	3.25E-11	3.11E-11	3.07E-11
RN222	9.50E-08	1.11E-07	1.11E-07	1.11E-07	1.11E-07	1.11E-07	1.11E-07	1.11E-07	1.10E-07	1.10E-07	1.09E-07
FR221	6.35E-19	3.66E-18	6.75E-18	9.89E-18	1.63E-17	2.30E-17	2.81E-17	3.34E-17	7.17E-17	1.16E-16	2.23E-16
FR223	4.70E-13	7.46E-13	7.46E-13	7.46E-13	7.46E-13	7.46E-13	7.46E-13	7.46E-13	7.47E-13	7.48E-13	7.50E-13
RA223	4.02E-08	4.03E-08	4.03E-08	4.03E-08	4.03E-08	4.03E-08	4.03E-08	4.03E-08	4.03E-08	4.04E-08	4.05E-08
RA224	3.71E-07	3.72E-06	2.65E-06	1.91E-06	1.03E-06	5.99E-07	4.28E-07	3.28E-07	1.85E-07	1.77E-07	1.75E-07
RA225	2.82E-15	1.63E-14	3.00E-14	4.39E-14	7.25E-14	1.02E-13	1.25E-13	1.48E-13	3.18E-13	5.14E-13	9.89E-13
RA226	1.69E-02	1.69E-02	1.69E-02	1.69E-02	1.69E-02	1.69E-02	1.69E-02	1.69E-02	1.69E-02	1.68E-02	1.67E-02
RA228	1.42E-04	1.39E-04	1.37E-04	1.35E-04	1.32E-04	1.29E-04	1.27E-04	1.26E-04	1.20E-04	1.18E-04	1.17E-04
AC225	1.90E-15	1.10E-14	2.02E-14	2.97E-14	4.90E-14	6.90E-14	8.44E-14	1.00E-13	2.15E-13	3.47E-13	6.68E-13
AC227	2.80E-05	2.80E-05	2.80E-05	2.80E-05	2.80E-05	2.80E-05	2.80E-05	2.80E-05	2.80E-05	2.81E-05	2.81E-05
AC228	1.37E-08	1.45E-08	1.43E-08	1.41E-08	1.37E-08	1.34E-08	1.33E-08	1.31E-08	1.25E-08	1.23E-08	1.22E-08
TH227	6.59E-08	6.51E-08	6.51E-08	6.51E-08	6.51E-08	6.51E-08	6.51E-08	6.51E-08	6.51E-08	6.52E-08	6.54E-08
TH228	9.98E-04	7.07E-04	5.04E-04	3.63E-04	1.95E-04	1.14E-04	8.14E-05	6.24E-05	3.52E-05	3.37E-05	3.33E-05
TH229	5.10E-10	2.95E-09	5.43E-09	7.95E-09	1.31E-08	1.85E-08	2.26E-08	2.69E-08	5.77E-08	9.30E-08	1.79E-07
TH230	3.55E-01	3.55E-01	3.55E-01	3.55E-01	3.55E-01	3.55E-01	3.56E-01	3.56E-01	3.56E-01	3.57E-01	3.59E-01
TH231	6.60E-08	4.40E-08	4.40E-08	4.40E-08	4.40E-08	4.40E-08	4.40E-08	4.40E-08	4.40E-08	4.40E-08	4.40E-08
TH232	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05
TH234	3.19E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05
PA231	4.21E-02	4.21E-02	4.21E-02	4.21E-02	4.22E-02	4.22E-02	4.22E-02	4.22E-02	4.23E-02	4.24E-02	4.26E-02
PA233	1.01E-06	1.01E-06	1.01E-06	1.01E-06	1.02E-06	1.03E-06	1.04E-06	1.05E-06	1.13E-06	1.22E-06	1.44E-06

PA234M	1.08E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09
PA234	8.67E-09	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10
U 232	1.31E-07	2.13E-07	2.76E-07	3.25E-07	3.90E-07	4.26E-07	4.41E-07	4.50E-07	4.38E-07	4.00E-07	3.30E-07	3.30E-07
U 233	5.51E-04	5.62E-04	5.72E-04	5.83E-04	6.03E-04	6.23E-04	6.39E-04	6.54E-04	7.56E-04	8.66E-04	1.11E-03	1.11E-03
U 234	1.68E+01	1.75E+01	1.82E+01	1.88E+01	2.02E+01	2.15E+01	2.24E+01	2.34E+01	2.94E+01	3.50E+01	4.50E+01	4.50E+01
U 235	1.06E+04	1.06E+04	1.06E+04	1.06E+04	1.06E+04	1.06E+04	1.06E+04	1.06E+04	1.06E+04	1.06E+04	1.06E+04	1.06E+04
U 236	7.61E+02	7.61E+02	7.61E+02	7.61E+02	7.62E+02	7.62E+02	7.62E+02	7.62E+02	7.62E+02	7.63E+02	7.64E+02	7.67E+02
U 237	7.96E-07	6.00E-06	5.72E-06	5.45E-06	4.95E-06	4.49E-06	4.18E-06	3.89E-06	2.40E-06	1.49E-06	5.67E-07	5.67E-07
U 238	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06
U 240	1.46E-18	3.04E-18	3.04E-18	3.04E-18	3.04E-18	3.04E-18	3.04E-18	3.04E-18	3.05E-18	3.05E-18	3.06E-18	3.06E-18
NP237	2.91E+01	2.92E+01	2.93E+01	2.94E+01	2.96E+01	2.99E+01	3.01E+01	3.04E+01	3.26E+01	3.53E+01	4.16E+01	4.16E+01
NP238	1.67E-13	3.71E-13	3.69E-13	3.67E-13	3.64E-13	3.61E-13	3.58E-13	3.56E-13	3.40E-13	3.25E-13	2.97E-13	2.97E-13
NP239	2.19E-10	4.68E-10	4.68E-10	4.68E-10	4.68E-10	4.68E-10	4.68E-10	4.68E-10	4.67E-10	4.67E-10	4.66E-10	4.66E-10
NP240M	1.28E-20	2.66E-20	2.66E-20	2.66E-20	2.66E-20	2.66E-20	2.66E-20	2.66E-20	2.66E-20	2.67E-20	2.68E-20	2.68E-20
PU236	3.88E-07	3.04E-07	2.39E-07	1.87E-07	1.15E-07	7.08E-08	4.91E-08	3.41E-08	3.00E-09	2.64E-10	2.04E-12	2.04E-12
PU238	8.62E+01	8.56E+01	8.49E+01	8.42E+01	8.29E+01	8.16E+01	8.06E+01	7.97E+01	7.36E+01	6.80E+01	5.81E+01	5.81E+01
PU239	2.37E+03	2.36E+03	2.36E+03	2.36E+03	2.36E+03	2.36E+03	2.36E+03	2.36E+03	2.36E+03	2.36E+03	2.36E+03	2.36E+03
PU240	1.04E+03	1.04E+03	1.04E+03	1.04E+03	1.04E+03	1.04E+03	1.04E+03	1.04E+03	1.04E+03	1.04E+03	1.04E+03	1.03E+03
PU241	1.96E+02	1.87E+02	1.78E+02	1.70E+02	1.54E+02	1.40E+02	1.30E+02	1.21E+02	7.48E+01	4.62E+01	1.77E+01	1.77E+01
PU242	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.29E+02
PU243	0.0	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15
PU244	1.56E-07	1.56E-07	1.56E-07	1.56E-07	1.56E-07	1.56E-07	1.56E-07	1.56E-07	1.57E-07	1.57E-07	1.57E-07	1.57E-07
AM241	3.92E+01	4.83E+01	5.70E+01	6.53E+01	8.06E+01	9.45E+01	1.04E+02	1.13E+02	1.57E+02	1.83E+02	2.05E+02	2.05E+02
AM242M	1.95E-06	1.94E-06	1.94E-06	1.93E-06	1.91E-06	1.89E-06	1.88E-06	1.87E-06	1.78E-06	1.70E-06	1.56E-06	1.56E-06
AM242	1.05E-11	2.33E-11	2.32E-11	2.31E-11	2.28E-11	2.26E-11	2.25E-11	2.23E-11	2.13E-11	2.04E-11	1.86E-11	1.86E-11
AM243	5.36E-04	5.36E-04	5.36E-04	5.35E-04	5.35E-04	5.35E-04	5.35E-04	5.35E-04	5.35E-04	5.34E-04	5.33E-04	5.33E-04
AM244	1.48E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CM242	2.20E-06	4.69E-07	1.03E-07	2.56E-08	5.57E-09	4.63E-09	4.56E-09	4.52E-09	4.31E-09	4.12E-09	3.76E-09	3.76E-09
CM243	1.51E-06	1.47E-06	1.44E-06	1.40E-06	1.34E-06	1.27E-06	1.23E-06	1.18E-06	9.27E-07	7.27E-07	4.47E-07	4.47E-07
CM244	3.01E+00	2.90E+00	2.79E+00	2.69E+00	2.49E+00	2.30E+00	2.18E+00	2.05E+00	1.40E+00	9.56E-01	4.45E-01	4.45E-01
CM245	4.50E-02	4.50E-02	4.50E-02	4.50E-02	4.50E-02	4.49E-02	4.49E-02	4.49E-02	4.49E-02	4.49E-02	4.48E-02	4.48E-02
CM246	9.30E-03	9.30E-03	9.30E-03	9.30E-03	9.29E-03	9.29E-03	9.29E-03	9.29E-03	9.27E-03	9.26E-03	9.23E-03	9.23E-03
CM247	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04
CM248	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05
TOTAL	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06

NUCLIDE CONCENTRATIONS, GRAMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
HE 4	0.0	4.17E+00	8.36E+00	1.26E+01	2.10E+01	2.95E+01	3.59E+01	4.23E+01	8.50E+01	1.27E+02	2.09E+02
TL207	1.56E-09	2.41E-09	2.41E-09	2.41E-09	2.41E-09	2.41E-09	2.41E-09	2.41E-09	2.41E-09	2.42E-09	2.42E-09
TL208	5.69E-08	1.62E-07	1.15E-07	8.30E-08	4.47E-08	2.60E-08	1.86E-08	1.43E-08	8.03E-09	7.69E-09	7.60E-09
TL209	1.32E-18	7.72E-18	1.42E-17	2.08E-17	3.44E-17	4.85E-17	5.93E-17	7.04E-17	1.51E-16	2.44E-16	4.69E-16
PB206	0.0	9.05E-04	1.82E-03	2.75E-03	4.67E-03	6.65E-03	8.19E-03	9.75E-03	2.10E-02	3.33E-02	6.00E-02
PB207	0.0	1.85E-04	3.70E-04	5.54E-04	9.24E-04	1.29E-03	1.57E-03	1.85E-03	3.70E-03	5.55E-03	9.25E-03
PB208	0.0	6.28E-02	1.08E-01	1.41E-01	1.82E-01	2.04E-01	2.15E-01	2.23E-01	2.55E-01	2.81E-01	3.36E-01
PB209	5.47E-15	3.16E-14	5.82E-14	8.52E-14	1.41E-13	1.98E-13	2.43E-13	2.88E-13	6.18E-13	9.97E-13	1.92E-12
PB210	2.94E-02	3.00E-02	3.06E-02	3.12E-02	3.23E-02	3.33E-02	3.41E-02	3.48E-02	3.87E-02	4.15E-02	4.50E-02
PB211	1.86E-08	1.87E-08	1.87E-08	1.87E-08	1.87E-08	1.87E-08	1.87E-08	1.87E-08	1.87E-08	1.87E-08	1.87E-08
PB212	2.92E-05	9.56E-05	6.81E-05	4.90E-05	2.64E-05	1.54E-05	1.10E-05	8.42E-06	4.74E-06	4.54E-06	4.48E-06
PB214	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.15E-07	1.14E-07
BI209	0.0	3.17E-11	1.12E-10	2.41E-10	6.52E-10	1.27E-09	1.87E-09	2.60E-09	1.08E-08	2.56E-08	7.85E-08
BI210	1.72E-05	1.85E-05	1.88E-05	1.92E-05	1.99E-05	2.05E-05	2.10E-05	2.14E-05	2.38E-05	2.55E-05	2.77E-05
BI211	1.10E-09	1.10E-09	1.10E-09	1.10E-09	1.10E-09	1.10E-09	1.10E-09	1.10E-09	1.10E-09	1.10E-09	1.11E-09
BI212	2.77E-06	9.06E-06	6.46E-06	4.65E-06	2.50E-06	1.46E-06	1.04E-06	7.99E-07	4.50E-07	4.31E-07	4.25E-07
BI213	1.29E-15	7.42E-16	1.37E-14	2.00E-14	3.31E-14	4.66E-14	5.70E-14	6.77E-14	1.45E-13	2.34E-13	4.51E-13
BI214	8.57E-08	8.57E-08	8.57E-08	8.56E-08	8.56E-08	8.56E-08	8.65E-08	8.55E-08	8.53E-08	8.51E-08	8.47E-08
PO210	4.99E-04	5.00E-04	5.08E-04	5.18E-04	5.39E-04	5.57E-04	5.68E-04	5.80E-04	6.57E-04	7.05E-04	7.65E-04
PO211	9.06E-15	1.45E-14	1.45E-14	1.45E-14	1.45E-14	1.45E-14	1.45E-14	1.45E-14	1.45E-14	1.45E-14	1.45E-14
PO212	3.81E-17	4.80E-16	3.42E-16	2.46E-16	1.33E-16	7.72E-17	5.52E-17	4.23E-17	2.38E-17	2.28E-17	2.25E-17
PO213	1.93E-24	1.11E-23	2.05E-23	3.00E-23	4.96E-23	6.99E-23	8.55E-23	1.02E-22	2.18E-22	3.51E-22	6.77E-22
PO214	7.41E-15	1.18E-14	1.18E-14	1.18E-14	1.18E-14	1.18E-14	1.18E-14	1.18E-14	1.17E-14	1.17E-14	1.17E-14
PO215	1.01E-14	1.56E-14	1.56E-14	1.56E-14	1.56E-14	1.56E-14	1.56E-14	1.56E-14	1.56E-14	1.57E-14	1.57E-14
PO216	3.03E-11	3.81E-10	2.72E-10	1.96E-10	1.05E-10	6.13E-11	4.39E-11	3.36E-11	1.89E-11	1.81E-11	1.79E-11
PO218	8.41E-09	1.34E-08	1.34E-08	1.34E-08	1.34E-08	1.34E-08	1.34E-08	1.33E-08	1.33E-08	1.33E-08	1.32E-08
AT217	1.54E-20	8.91E-20	1.64E-19	2.41E-19	3.98E-19	5.60E-19	6.85E-19	8.13E-19	1.75E-18	2.82E-18	5.42E-18
RN219	3.53E-11	3.54E-11	3.54E-11	3.54E-11	3.54E-11	3.54E-11	3.54E-11	3.54E-11	3.54E-11	3.55E-11	3.56E-11
RN220	1.14E-08	1.44E-07	1.03E-07	7.39E-08	3.98E-08	2.32E-08	1.66E-08	1.27E-08	7.14E-09	6.84E-09	6.75E-09
RN222	2.11E-05	2.46E-05	2.46E-05	2.46E-05	2.46E-05	2.46E-05	2.45E-05	2.45E-05	2.45E-05	2.44E-05	2.43E-05
FR221	1.40E-16	8.09E-16	1.49E-15	2.19E-15	3.61E-15	5.08E-15	6.22E-15	7.39E-15	1.58E-14	2.56E-14	4.92E-14
FR223	1.05E-10	1.66E-10	1.66E-10	1.66E-10	1.66E-10	1.66E-10	1.66E-10	1.66E-10	1.67E-10	1.67E-10	1.67E-10
RA223	8.97E-06	8.99E-06	8.99E-06	8.99E-06	8.99E-06	8.99E-06	8.99E-06	8.99E-06	9.00E-06	9.01E-06	9.03E-06
RA224	8.31E-05	8.34E-04	5.94E-04	4.28E-04	2.30E-04	1.34E-04	9.59E-05	7.35E-05	4.13E-05	3.96E-05	3.91E-05
RA225	6.34E-13	3.66E-12	6.74E-12	9.88E-12	1.63E-11	2.30E-11	2.81E-11	3.34E-11	7.17E-11	1.16E-10	2.23E-10
RA226	3.83E+00	3.83E+00	3.83E+00	3.82E+00	3.82E+00	3.82E+00	3.82E+00	3.81E+00	3.80E+00	3.80E+00	3.78E+00
RA228	3.23E-02	3.18E-02	3.13E-02	3.08E-02	3.00E-02	2.94E-02	2.90E-02	2.86E-02	2.73E-02	2.68E-02	2.66E-02
AC225	4.28E-13	2.47E-12	4.55E-12	6.67E-12	1.10E-11	1.55E-11	1.90E-11	2.26E-11	4.84E-11	7.81E-11	1.50E-10
AC227	6.35E-03	6.35E-03	6.35E-03	6.35E-03	6.35E-03	6.35E-03	6.35E-03	6.35E-03	6.36E-03	6.37E-03	6.39E-03
AC228	3.13E-06	3.32E-06	3.26E-06	3.21E-06	3.13E-06	3.07E-06	3.02E-06	2.99E-06	2.85E-06	2.80E-06	2.78E-06
TH227	1.49E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05
TH228	2.28E-01	1.61E-01	1.15E-01	8.27E-02	4.45E-02	2.59E-02	1.86E-02	1.42E-02	8.03E-03	7.69E-03	7.60E-03
TH229	1.17E-07	6.74E-07	1.24E-06	1.82E-06	3.01E-06	4.24E-06	5.18E-06	6.15E-06	1.32E-05	2.13E-05	4.10E-05
TH230	8.17E+01	8.17E+01	8.17E+01	8.17E+01	8.17E+01	8.18E+01	8.18E+01	8.18E+01	8.20E+01	8.22E+01	8.27E+01
TH231	1.53E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05
TH232	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07
TH234	7.47E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03
PA231	9.73E+00	9.73E+00	9.73E+00	9.73E+00	9.74E+00	9.74E+00	9.75E+00	9.75E+00	9.77E+00	9.79E+00	9.84E+00
PA233	2.34E-04	2.35E-04	2.36E-04	2.36E-04	2.38E-04	2.41E-04	2.43E-04	2.45E-04	2.62E-04	2.84E-04	3.35E-04

PA234M	2.52E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07
PA234	2.03E-06	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07
U 232	3.03E-05	4.93E-05	6.40E-05	7.53E-05	9.04E-05	9.88E-05	1.02E-04	1.04E-04	1.02E-04	9.29E-05	7.66E-05	
U 233	1.28E-01	1.31E-01	1.33E-01	1.36E-01	1.40E-01	1.45E-01	1.49E-01	1.52E-01	1.76E-01	2.02E-01	2.60E-01	
U 234	3.94E+03	4.09E+03	4.25E+03	4.41E+03	4.72E+03	5.02E+03	5.25E+03	5.47E+03	6.89E+03	8.19E+03	1.05E+04	
U 235	2.50E+06	2.50E+06	2.50E+06	2.50E+06	2.50E+06	2.50E+06	2.50E+06	2.50E+06	2.50E+06	2.50E+06	2.50E+06	2.50E+06
U 236	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05
U 237	1.89E-04	1.42E-03	1.36E-03	1.29E-03	1.17E-03	1.07E-03	9.91E-04	9.22E-04	5.70E-04	3.52E-04	1.34E-04	
U 238	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08
U 240	3.50E-16	7.29E-16	7.29E-16	7.29E-16	7.29E-16	7.29E-16	7.30E-16	7.30E-16	7.30E-16	7.31E-16	7.32E-16	7.34E-16
NP237	6.90E+03	6.92E+03	6.94E+03	6.96E+03	7.02E+03	7.08E+03	7.14E+03	7.20E+03	7.72E+03	8.37E+03	9.86E+03	
NP238	3.96E-11	8.82E-11	8.78E-11	8.74E-11	8.66E-11	8.59E-11	8.53E-11	8.47E-11	8.09E-11	7.73E-11	7.06E-11	
NP239	5.24E-08	1.12E-07	1.12E-07	1.12E-07	1.12E-07	1.12E-07	1.12E-07	1.12E-07	1.12E-07	1.12E-07	1.11E-07	
NP240M	3.06E-18	6.38E-18	6.38E-18	6.38E-18	6.38E-18	6.38E-18	6.38E-18	6.38E-18	6.39E-18	6.40E-18	6.42E-18	
PU236	9.16E-05	7.18E-05	5.63E-05	4.42E-05	2.72E-05	1.67E-05	1.16E-05	8.06E-06	7.09E-07	6.23E-08	4.83E-10	
PU238	2.05E+04	2.04E+04	2.02E+04	2.00E+04	1.97E+04	1.94E+04	1.92E+04	1.90E+04	1.75E+04	1.62E+04	1.38E+04	
PU239	5.65E+05	5.65E+05	5.65E+05	5.65E+05	5.65E+05	5.65E+05	5.65E+05	5.65E+05	5.65E+05	5.65E+05	5.64E+05	
PU240	2.49E+05	2.49E+05	2.49E+05	2.49E+05	2.49E+05	2.49E+05	2.49E+05	2.49E+05	2.49E+05	2.49E+05	2.48E+05	
PU241	4.72E+04	4.50E+04	4.29E+04	4.09E+04	3.71E+04	3.37E+04	3.14E+04	2.92E+04	1.80E+04	1.11E+04	4.26E+03	
PU242	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04
PU243	0.0	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12
PU244	3.81E-05	3.81E-05	3.81E-05	3.81E-05	3.81E-05	3.81E-05	3.81E-05	3.82E-05	3.82E-05	3.83E-05	3.84E-05	
AM241	9.45E+03	1.17E+04	1.37E+04	1.57E+04	1.94E+04	2.28E+04	2.51E+04	2.72E+04	3.78E+04	4.40E+04	4.94E+04	
AM242M	4.73E-04	4.71E-04	4.68E-04	4.66E-04	4.62E-04	4.58E-04	4.55E-04	4.52E-04	4.32E-04	4.12E-04	3.76E-04	
AM242	2.54E-09	5.63E-09	5.60E-09	5.58E-09	5.53E-09	5.48E-09	5.44E-09	5.40E-09	5.16E-09	4.93E-09	4.50E-09	
AM243	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01
AM244	3.61E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CM242	5.31E-04	1.14E-04	2.50E-05	6.18E-06	1.35E-06	1.12E-06	1.10E-06	1.09E-06	1.04E-06	9.97E-07	9.10E-07	
CM243	3.67E-04	3.58E-04	3.49E-04	3.41E-04	3.25E-04	3.09E-04	2.98E-04	2.87E-04	2.25E-04	1.77E-04	1.09E-04	
CM244	7.35E+02	7.07E+02	6.81E+02	6.55E+02	6.07E+02	5.62E+02	5.31E+02	5.01E+02	3.42E+02	2.33E+02	1.08E+02	
CM245	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.10E+01
CM246	2.29E+00	2.29E+00	2.29E+00	2.29E+00	2.29E+00	2.29E+00	2.28E+00	2.28E+00	2.28E+00	2.28E+00	2.27E+00	
CM247	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02
CM248	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03
TOTAL	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.600E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
TL207	1.10E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.71E+10
TL208	6.20E+11	1.76E+12	1.26E+12	9.05E+11	4.87E+11	2.84E+11	2.03E+11	1.56E+11	8.75E+10	8.38E+10	8.28E+10
TL209	2.00E+01	1.17E+02	2.15E+02	3.15E+02	5.21E+02	7.34E+02	8.98E+02	1.07E+03	2.29E+03	3.69E+03	7.11E+03
PB209	9.20E+02	5.31E+03	9.78E+03	1.43E+04	2.37E+04	3.34E+04	4.08E+04	4.85E+04	1.04E+05	1.68E+05	3.23E+05
PB210	8.30E+10	8.48E+10	8.65E+10	8.81E+10	9.12E+10	9.41E+10	9.62E+10	9.82E+10	1.09E+11	1.17E+11	1.27E+11
PB211	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.71E+10	1.71E+10	1.71E+10	1.71E+10
PB212	1.50E+12	4.91E+12	3.50E+12	2.52E+12	1.36E+12	7.90E+11	5.65E+11	4.33E+11	2.44E+11	2.33E+11	2.31E+11
PB214	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.39E+11	1.39E+11	1.38E+11
BI210	7.90E+10	8.48E+10	8.65E+10	8.81E+10	9.13E+10	9.42E+10	9.63E+10	9.83E+10	1.09E+11	1.17E+11	1.27E+11
BI211	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.71E+10	1.71E+10	1.71E+10	1.71E+10
BI212	1.50E+12	4.91E+12	3.50E+12	2.52E+12	1.36E+12	7.90E+11	5.65E+11	4.33E+11	2.44E+11	2.33E+11	2.31E+11
BI213	9.20E+02	5.31E+03	9.78E+03	1.43E+04	2.37E+04	3.34E+04	4.08E+04	4.85E+04	1.04E+05	1.68E+05	3.23E+05
BI214	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.39E+11	1.39E+11	1.38E+11
PO210	8.30E+10	8.31E+10	8.45E+10	8.61E+10	8.96E+10	9.26E+10	9.45E+10	9.65E+10	1.09E+11	1.17E+11	1.27E+11
PO211	3.20E+07	5.11E+07	5.11E+07	5.11E+07	5.11E+07	5.11E+07	5.11E+07	5.12E+07	6.12E+07	5.12E+07	5.14E+07
PO212	2.50E+11	3.15E+12	2.25E+12	1.62E+12	8.70E+11	5.07E+11	3.62E+11	2.78E+11	1.56E+11	1.50E+11	1.48E+11
PO213	9.00E+02	5.19E+03	9.57E+03	1.40E+04	2.32E+04	3.26E+04	3.99E+04	4.74E+04	1.02E+05	1.64E+05	3.16E+05
PO214	8.80E+10	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.39E+11	1.39E+11	1.38E+11
PO215	1.10E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.71E+10	1.71E+10	1.71E+10	1.71E+10
PO216	3.90E+11	4.91E+12	3.50E+12	2.52E+12	1.36E+12	7.90E+11	5.65E+11	4.33E+11	2.44E+11	2.33E+11	2.31E+11
PO218	8.80E+10	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.39E+11	1.39E+11	1.38E+11
AT217	9.20E+02	5.31E+03	9.78E+03	1.43E+04	2.37E+04	3.34E+04	4.08E+04	4.85E+04	1.04E+05	1.68E+05	3.23E+05
RN219	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.71E+10	1.71E+10	1.71E+10	1.71E+10
RN220	3.90E+11	4.91E+12	3.50E+12	2.52E+12	1.36E+12	7.90E+11	5.65E+11	4.33E+11	2.44E+11	2.33E+11	2.31E+11
RN222	1.20E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.39E+11	1.39E+11	1.38E+11
FR221	9.20E+02	5.31E+03	9.78E+03	1.43E+04	2.37E+04	3.34E+04	4.08E+04	4.85E+04	1.04E+05	1.68E+05	3.23E+05
FR223	1.50E+08	2.38E+08	2.38E+08	2.38E+08	2.38E+08	2.38E+08	2.38E+08	2.38E+08	2.38E+08	2.39E+08	2.39E+08
RA223	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.71E+10	1.71E+10	1.71E+10	1.71E+10
RA224	4.90E+11	4.91E+12	3.50E+12	2.52E+12	1.36E+12	7.90E+11	5.65E+11	4.33E+11	2.44E+11	2.33E+11	2.31E+11
RA225	9.20E+02	5.31E+03	9.78E+03	1.43E+04	2.37E+04	3.34E+04	4.08E+04	4.85E+04	1.04E+05	1.68E+05	3.23E+05
RA226	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.40E+11	1.39E+11	1.39E+11	1.38E+11
RA228	2.80E+11	2.75E+11	2.71E+11	2.67E+11	2.60E+11	2.54E+11	2.51E+11	2.48E+11	2.36E+11	2.32E+11	2.30E+11
AC225	9.20E+02	5.31E+03	9.78E+03	1.43E+04	2.37E+04	3.34E+04	4.08E+04	4.85E+04	1.04E+05	1.68E+05	3.23E+05
AC227	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.71E+10
AC228	2.60E+11	2.75E+11	2.71E+11	2.67E+11	2.60E+11	2.54E+11	2.51E+11	2.48E+11	2.36E+11	2.32E+11	2.30E+11
TH227	1.70E+10	1.68E+10	1.68E+10	1.68E+10	1.68E+10	1.68E+10	1.68E+10	1.68E+10	1.68E+10	1.68E+10	1.69E+10
TH228	6.90E+12	4.89E+12	3.49E+12	2.51E+12	1.35E+12	7.87E+11	5.63E+11	4.31E+11	2.44E+11	2.33E+11	2.31E+11
TH229	9.20E+02	5.31E+03	9.78E+03	1.43E+04	2.37E+04	3.34E+04	4.08E+04	4.85E+04	1.04E+05	1.68E+05	3.23E+05
TH230	6.10E+10	6.10E+10	6.10E+10	6.11E+10	6.11E+10	6.11E+10	6.11E+10	6.11E+10	6.12E+10	6.14E+10	6.18E+10
TH231	3.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11
TH232	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
TH234	6.40E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12
PA231	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.70E+10	1.71E+10	1.71E+10	1.72E+10
PA233	1.80E+11	1.81E+11	1.81E+11	1.82E+11	1.83E+11	1.85E+11	1.86E+11	1.88E+11	2.01E+11	2.18E+11	2.57E+11
PA234M	6.40E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12
PA234	1.50E+11	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09
U 232	2.40E+07	3.91E+07	5.07E+07	5.97E+07	7.16E+07	7.83E+07	8.11E+07	8.27E+07	8.05E+07	7.36E+07	6.07E+07
U 233	4.60E+07	4.69E+07	4.78E+07	4.86E+07	5.03E+07	5.20E+07	5.33E+07	5.46E+07	6.31E+07	7.23E+07	9.30E+07
U 234	9.10E+11	9.47E+11	9.84E+11	1.02E+12	1.09E+12	1.16E+12	1.21E+12	1.26E+12	1.59E+12	1.90E+12	2.43E+12

U 236	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11
U 236	4.30E+11	4.30E+11	4.30E+11	4.30E+11	4.30E+11	4.30E+11	4.31E+11	4.31E+11	4.31E+11	4.31E+11	4.32E+11	4.33E+11
U 237	5.70E+11	4.30E+12	4.09E+12	3.90E+12	3.54E+12	3.22E+12	2.99E+12	2.79E+12	1.72E+12	1.06E+12	4.06E+11	
U 238	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12
U 240	1.20E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.51E+01	2.51E+01	2.52E+01
NP237	1.80E+11	1.81E+11	1.81E+11	1.82E+11	1.83E+11	1.85E+11	1.86E+11	1.88E+11	2.01E+11	2.18E+11	2.57E+11	
NP238	3.80E+05	8.47E+05	8.43E+05	8.39E+05	8.31E+05	8.24E+05	8.18E+05	8.12E+05	7.76E+05	7.42E+05	6.77E+05	
NP239	4.50E+08	9.60E+08	9.60E+08	9.60E+08	9.60E+08	9.60E+08	9.60E+08	9.60E+08	9.60E+08	9.59E+08	9.58E+08	9.56E+08
NP240M	1.20E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.51E+01	2.51E+01	2.52E+01
PU236	1.80E+09	1.41E+09	1.11E+09	8.68E+08	5.34E+08	3.28E+08	2.28E+08	1.58E+08	1.39E+07	1.23E+06	9.49E+03	
PU238	1.30E+16	1.29E+16	1.28E+16	1.27E+16	1.25E+16	1.23E+16	1.22E+16	1.20E+16	1.11E+16	1.03E+16	8.76E+15	
PU239	1.30E+15	1.30E+15	1.30E+15	1.30E+15	1.30E+15	1.30E+15	1.30E+15	1.30E+15	1.30E+15	1.30E+15	1.30E+15	1.30E+15
PU240	2.10E+15	2.10E+15	2.10E+15	2.10E+15	2.10E+15	2.10E+15	2.10E+15	2.10E+15	2.10E+15	2.10E+15	2.09E+15	
PU241	1.80E+17	1.72E+17	1.64E+17	1.56E+17	1.42E+17	1.29E+17	1.20E+17	1.11E+17	6.88E+16	4.25E+16	1.62E+16	
PU242	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.40E+12
PU243	0.0	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05
PU244	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.51E+01	2.51E+01	2.52E+01	
AM241	1.20E+15	1.48E+15	1.75E+15	2.00E+15	2.47E+15	2.89E+15	3.18E+15	3.45E+15	4.80E+15	5.59E+15	6.28E+15	
AM242M	1.70E+08	1.69E+08	1.69E+08	1.68E+08	1.66E+08	1.65E+08	1.64E+08	1.62E+08	1.55E+08	1.48E+08	1.35E+08	
AM242	7.60E+07	1.68E+08	1.68E+08	1.67E+08	1.65E+08	1.64E+08	1.63E+08	1.62E+08	1.54E+08	1.48E+08	1.35E+08	
AM243	9.60E+08	9.60E+08	9.60E+08	9.60E+08	9.60E+08	9.60E+08	9.60E+08	9.60E+08	9.59E+08	9.58E+08	9.56E+08	
AM244	1.70E+14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CM242	6.50E+10	1.39E+10	3.06E+09	7.57E+08	1.65E+08	1.37E+08	1.35E+08	1.34E+08	1.28E+08	1.22E+08	1.11E+08	
CM243	7.00E+08	6.83E+08	6.67E+08	6.51E+08	6.20E+08	5.91E+08	5.70E+08	5.49E+08	4.31E+08	3.38E+08	2.08E+08	
CM244	2.20E+15	2.12E+15	2.04E+15	1.96E+15	1.82E+15	1.68E+15	1.59E+15	1.50E+15	1.02E+15	6.98E+14	3.25E+14	
CM245	7.00E+10	7.00E+10	7.00E+10	7.00E+10	7.00E+10	7.00E+10	7.00E+10	7.00E+10	6.99E+10	6.99E+10	6.97E+10	
CM246	2.60E+10	2.60E+10	2.60E+10	2.60E+10	2.60E+10	2.60E+10	2.60E+10	2.60E+10	2.59E+10	2.59E+10	2.58E+10	
CM247	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05
CM248	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05
TOTAL	2.00E+17	1.92E+17	1.84E+17	1.76E+17	1.62E+17	1.49E+17	1.40E+17	1.32E+17	8.91E+16	6.25E+16	3.50E+16	

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
TL207	8.73E-04	1.35E-03	1.35E-03	1.35E-03	1.35E-03	1.35E-03	1.35E-03	1.35E-03	1.35E-03	1.35E-03	1.36E-03
TL208	3.94E-01	1.12E+00	8.00E-01	5.76E-01	3.10E-01	1.80E-01	1.29E-01	9.89E-02	5.67E-02	5.33E-02	5.27E-02
TL209	8.98E-12	5.25E-11	9.66E-11	1.42E-10	2.34E-10	3.29E-10	4.03E-10	4.79E-10	1.03E-09	1.66E-09	3.19E-09
PB209	2.86E-11	1.65E-10	3.04E-10	4.46E-10	7.36E-10	1.04E-09	1.27E-09	1.51E-09	3.23E-09	5.21E-09	1.00E-08
PB210	5.20E-04	5.31E-04	5.42E-04	5.52E-04	5.71E-04	5.90E-04	6.03E-04	6.15E-04	6.84E-04	7.34E-04	7.96E-04
PB211	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.39E-03
PB212	7.72E-02	2.53E-01	1.80E-01	1.30E-01	6.99E-02	4.07E-02	2.91E-02	2.23E-02	1.25E-02	1.20E-02	1.19E-02
PB214	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.20E-02	1.20E-02	1.20E-02	1.20E-02	1.19E-02
BI210	4.93E-03	5.29E-03	5.39E-03	5.49E-03	5.69E-03	5.87E-03	6.00E-03	6.12E-03	6.81E-03	7.31E-03	7.93E-03
BI211	1.83E-02	1.84E-02	1.84E-02	1.84E-02	1.84E-02	1.84E-02	1.84E-02	1.84E-02	1.84E-02	1.84E-02	1.85E-02
BI212	6.90E-01	2.26E+00	1.61E+00	1.16E+00	6.24E-01	3.63E-01	2.60E-01	1.99E-01	1.12E-01	1.07E-01	1.06E-01
BI213	1.05E-10	6.03E-10	1.11E-09	1.63E-09	2.69E-09	3.79E-09	4.64E-09	5.51E-09	1.18E-08	1.91E-08	3.67E-08
BI214	4.85E-02	4.85E-02	4.85E-02	4.85E-02	4.85E-02	4.84E-02	4.84E-02	4.84E-02	4.83E-02	4.82E-02	4.79E-02
PO210	7.19E-02	7.20E-02	7.32E-02	7.46E-02	7.76E-02	8.02E-02	8.19E-02	8.36E-02	9.47E-02	1.02E-01	1.10E-01
PO211	3.89E-05	6.22E-05	6.22E-05	6.22E-05	6.22E-05	6.22E-05	6.22E-05	6.22E-05	6.23E-05	6.23E-05	6.25E-05
PO212	3.59E-01	4.52E+00	3.22E+00	2.32E+00	1.25E+00	7.27E-01	5.20E-01	3.98E-01	2.24E-01	2.15E-01	2.12E-01
PO213	1.23E-09	7.10E-09	1.31E-08	1.92E-08	3.17E-08	4.46E-08	5.46E-08	6.48E-08	1.39E-07	2.24E-07	4.32E-07
PO214	1.10E-01	1.76E-01	1.76E-01	1.76E-01	1.76E-01	1.75E-01	1.75E-01	1.75E-01	1.75E-01	1.75E-01	1.74E-01
PO215	1.33E-02	2.06E-02	2.06E-02	2.06E-02	2.06E-02	2.06E-02	2.06E-02	2.06E-02	2.06E-02	2.06E-02	2.07E-02
PO216	4.17E-01	5.26E+00	3.75E+00	2.70E+00	1.45E+00	8.46E-01	6.05E-01	4.63E-01	2.61E-01	2.50E-01	2.47E-01
PO218	8.62E-02	1.37E-01	1.37E-01	1.37E-01	1.37E-01	1.37E-01	1.37E-01	1.37E-01	1.37E-01	1.36E-01	1.36E-01
AT217	1.06E-09	6.13E-09	1.13E-08	1.65E-08	2.73E-08	3.85E-08	4.71E-08	5.59E-08	1.20E-07	1.94E-07	3.73E-07
RN219	1.89E-02	1.90E-02	1.90E-02	1.90E-02	1.90E-02	1.90E-02	1.90E-02	1.90E-02	1.90E-02	1.90E-02	1.91E-02
RN220	4.00E-01	5.04E+00	3.60E+00	2.59E+00	1.39E+00	8.11E-01	5.80E-01	4.44E-01	2.50E-01	2.40E-01	2.37E-01
RN222	1.08E-01	1.25E-01	1.25E-01	1.25E-01	1.25E-01	1.25E-01	1.25E-01	1.25E-01	1.25E-01	1.25E-01	1.24E-01
FR221	9.52E-10	5.49E-09	1.01E-08	1.48E-08	2.45E-08	3.45E-08	4.22E-08	5.01E-08	1.08E-07	1.74E-07	3.34E-07
FR223	1.05E-05	1.67E-05	1.67E-05	1.67E-05	1.67E-05	1.67E-05	1.67E-05	1.67E-05	1.67E-05	1.68E-05	1.68E-05
RA223	1.63E-02	1.63E-02	1.63E-02	1.63E-02	1.63E-02	1.63E-02	1.63E-02	1.63E-02	1.63E-02	1.64E-02	1.64E-02
RA224	4.55E-01	4.56E+00	3.25E+00	2.34E+00	1.26E+00	7.33E-01	5.24E-01	4.02E-01	2.26E-01	2.17E-01	2.14E-01
RA225	1.74E-11	1.01E-10	1.85E-10	2.72E-10	4.49E-10	6.32E-10	7.73E-10	9.18E-10	1.97E-09	3.18E-09	6.12E-09
RA226	1.09E-01	1.09E-01	1.09E-01	1.09E-01	1.09E-01	1.09E-01	1.09E-01	1.09E-01	1.09E-01	1.09E-01	1.08E-01
RA228	5.83E-04	5.73E-04	5.64E-04	5.56E-04	5.41E-04	5.30E-04	5.22E-04	5.16E-04	4.92E-04	4.84E-04	4.80E-04
AC225	8.75E-10	5.05E-09	9.30E-09	1.36E-08	2.25E-08	3.17E-08	3.88E-08	4.61E-08	9.89E-08	1.60E-07	3.07E-07
AC227	2.23E-04	2.23E-04	2.23E-04	2.23E-04	2.23E-04	2.23E-04	2.23E-04	2.23E-04	2.23E-04	2.23E-04	2.24E-04
AC228	6.08E-02	6.43E-02	6.33E-02	6.23E-02	6.07E-02	5.94E-02	5.86E-02	5.79E-02	5.52E-02	5.43E-02	5.38E-02
TH227	1.67E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02
TH228	6.10E+00	4.32E+00	3.08E+00	2.22E+00	1.19E+00	6.96E-01	4.98E-01	3.82E-01	2.16E-01	2.06E-01	2.04E-01
TH229	7.62E-10	4.40E-09	8.10E-09	1.19E-08	1.96E-08	2.76E-08	3.38E-08	4.01E-08	8.61E-08	1.39E-07	2.67E-07
TH230	4.66E-02	4.67E-02	4.67E-02	4.67E-02	4.67E-02	4.67E-02	4.67E-02	4.67E-02	4.68E-02	4.69E-02	4.72E-02
TH231	4.55E-03	3.04E-03	3.04E-03	3.04E-03	3.04E-03	3.04E-03	3.04E-03	3.04E-03	3.04E-03	3.04E-03	3.04E-03
TH232	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01
TH234	7.02E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02
PA231	1.40E-02	1.40E-02	1.40E-02	1.40E-02	1.40E-02	1.40E-02	1.41E-02	1.41E-02	1.41E-02	1.41E-02	1.42E-02
PA233	1.10E-02	1.11E-02	1.11E-02	1.11E-02	1.12E-02	1.13E-02	1.14E-02	1.15E-02	1.24E-02	1.34E-02	1.58E-02
PA234M	8.55E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01
PA234	5.83E-02	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03
U 232	2.08E-05	3.39E-05	4.40E-05	5.17E-05	6.21E-05	6.79E-05	7.04E-05	7.17E-05	6.98E-05	6.38E-05	5.27E-05
U 233	3.62E-05	3.69E-05	3.76E-05	3.83E-05	3.96E-05	4.09E-05	4.19E-05	4.30E-05	4.96E-05	5.69E-05	7.32E-05
U 234	7.08E-01	7.37E-01	7.65E-01	7.93E-01	8.49E-01	9.04E-01	9.44E-01	9.84E-01	1.24E+00	1.47E+00	1.89E+00

U 235	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01
U 236	3.15E-01	3.15E-01	3.15E-01	3.15E-01	3.15E-01	3.15E-01	3.15E-01	3.15E-01	3.15E-01	3.16E-01	3.16E-01	3.17E-01
U 237	2.92E-02	2.20E-01	2.09E-01	2.00E-01	1.81E-01	1.65E-01	1.53E-01	1.42E-01	8.80E-02	5.44E-02	5.44E-02	2.08E-02
U 238	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00
U 240	2.66E-13	5.64E-13	5.64E-13	5.64E-13	5.64E-13	5.64E-13	5.65E-13	5.65E-13	5.65E-13	5.66E-13	5.66E-13	5.58E-13
NP237	1.43E-01	1.43E-01	1.44E-01	1.44E-01	1.45E-01	1.47E-01	1.48E-01	1.49E-01	1.60E-01	1.73E-01	1.73E-01	2.04E-01
NP238	4.92E-08	1.10E-07	1.09E-07	1.09E-07	1.08E-07	1.07E-07	1.06E-07	1.05E-07	1.00E-07	9.60E-08	9.60E-08	8.76E-08
NP239	2.94E-05	6.27E-05	6.27E-05	6.27E-05	6.27E-05	6.27E-05	6.27E-05	6.27E-05	6.27E-05	6.26E-05	6.26E-05	6.25E-05
NP240M	1.88E-12	3.91E-12	3.91E-12	3.91E-12	3.91E-12	3.92E-12	3.92E-12	3.92E-12	3.92E-12	3.92E-12	3.93E-12	3.94E-12
PU236	1.69E-03	1.33E-03	1.04E-03	8.16E-04	5.02E-04	3.09E-04	2.14E-04	1.49E-04	1.31E-05	1.15E-06	8.92E-09	8.92E-09
PU238	1.17E+04	1.16E+04	1.15E+04	1.14E+04	1.12E+04	1.10E+04	1.09E+04	1.08E+04	9.95E+03	9.20E+03	7.85E+03	7.85E+03
PU239	1.09E+03	1.09E+03	1.09E+03	1.09E+03	1.09E+03	1.09E+03	1.09E+03	1.09E+03	1.09E+03	1.09E+03	1.09E+03	1.09E+03
PU240	1.77E+03	1.77E+03	1.77E+03	1.77E+03	1.77E+03	1.77E+03	1.77E+03	1.77E+03	1.77E+03	1.77E+03	1.77E+03	1.76E+03
PU241	1.50E+02	1.43E+02	1.36E+02	1.30E+02	1.18E+02	1.07E+02	9.97E+01	9.27E+01	5.73E+01	3.54E+01	1.35E+01	1.35E+01
PU242	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00
PU243	0.0	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09
PU244	1.96E-11	1.96E-11	1.96E-11	1.96E-11	1.96E-11	1.96E-11	1.96E-11	1.96E-11	1.97E-11	1.97E-11	1.97E-11	1.97E-11
AM241	1.08E+03	1.34E+03	1.58E+03	1.81E+03	2.23E+03	2.61E+03	2.88E+03	3.12E+03	4.34E+03	5.05E+03	5.67E+03	5.67E+03
AM242M	1.81E-06	1.81E-06	1.80E-06	1.79E-06	1.77E-06	1.76E-06	1.75E-06	1.73E-06	1.66E-06	1.58E-06	1.44E-06	1.44E-06
AM242	2.39E-06	5.29E-06	5.27E-06	5.24E-06	5.19E-06	5.15E-06	5.11E-06	5.08E-06	4.85E-06	4.63E-06	4.23E-06	4.23E-06
AM243	8.37E-04	8.37E-04	8.37E-04	8.37E-04	8.36E-04	8.36E-04	8.36E-04	8.36E-04	8.35E-04	8.35E-04	8.33E-04	8.33E-04
AM244	2.41E+01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CM242	6.48E-02	1.38E-02	3.04E-03	7.54E-04	1.64E-04	1.36E-04	1.34E-04	1.33E-04	1.27E-04	1.22E-04	1.11E-04	1.11E-04
CM243	6.94E-04	6.78E-04	6.61E-04	6.46E-04	6.15E-04	5.86E-04	5.65E-04	5.44E-04	4.27E-04	3.35E-04	2.06E-04	2.06E-04
CM244	2.08E+03	2.00E+03	1.93E+03	1.86E+03	1.72E+03	1.59E+03	1.50E+03	1.42E+03	9.68E+02	6.60E+02	3.07E+02	3.07E+02
CM245	6.31E-02	6.31E-02	6.31E-02	6.31E-02	6.31E-02	6.30E-02	6.30E-02	6.30E-02	6.30E-02	6.29E-02	6.28E-02	6.28E-02
CM246	2.30E-02	2.30E-02	2.30E-02	2.30E-02	2.30E-02	2.30E-02	2.30E-02	2.30E-02	2.29E-02	2.29E-02	2.28E-02	2.28E-02
CM247	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08
CM248	1.62E-06	1.62E-06	1.62E-06	1.62E-06	1.62E-06	1.62E-06	1.62E-06	1.62E-06	1.62E-06	1.62E-06	1.62E-06	1.62E-06
TOTAL	1.79E+04	1.79E+04	1.80E+04	1.81E+04	1.81E+04	1.82E+04	1.83E+04	1.83E+04	1.82E+04	1.78E+04	1.67E+04	1.67E+04

NUCLIDE CONCENTRATIONS, GRAM ATOMS
 BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
H 3	2.52E+01	2.38E+01	2.25E+01	2.13E+01	1.90E+01	1.70E+01	1.56E+01	1.44E+01	8.21E+00	4.68E+00	1.52E+00
SE 79	5.89E-01	5.89E-01	5.89E-01	5.89E-01	5.89E-01	5.89E-01	5.89E-01	5.89E-01	5.89E-01	5.89E-01	5.89E-01
BR 79	0.0	6.29E-06	6.29E-06	1.89E-05	1.89E-05	3.14E-05	4.40E-05	5.34E-05	6.29E-05	1.26E-04	1.89E-04
RB 87	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01
SR 87	0.0	3.67E-12	7.33E-12	1.10E-11	1.83E-11	2.57E-11	3.12E-11	3.67E-11	7.33E-11	1.10E-10	1.83E-10
SR 89	6.38E-07	4.24E-09	2.82E-11	1.88E-13	8.32E-18	3.69E-22	2.00E-25	1.09E-28	0.0	0.0	0.0
SR 90	1.10E+02	1.07E+02	1.05E+02	1.02E+02	9.77E+01	9.32E+01	8.99E+01	8.68E+01	6.84E+01	5.39E+01	3.35E+01
Y 89	0.0	6.33E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07
Y 90	2.76E-02	2.70E-02	2.63E-02	2.57E-02	2.45E-02	2.34E-02	2.25E-02	2.18E-02	1.72E-02	1.35E-02	8.40E-03
ZR 90	0.0	2.59E+00	5.12E+00	7.59E+00	1.24E+01	1.69E+01	2.02E+01	2.33E+01	4.17E+01	5.62E+01	7.66E+01
ZR 93	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02
ZR 95	3.18E-03	6.08E-05	1.16E-06	2.23E-08	8.16E-12	2.99E-15	7.92E-18	2.10E-20	1.38E-37	9.12E-55	0.0
NB 93	0.0	4.88E-05	9.78E-05	1.47E-04	2.46E-04	3.45E-04	4.20E-04	4.95E-04	1.00E-03	1.52E-03	2.55E-03
NB 93M	9.05E-04	9.08E-04	9.12E-04	9.15E-04	9.21E-04	9.26E-04	9.30E-04	9.34E-04	9.51E-04	9.61E-04	9.71E-04
NB 94	6.91E-03	6.91E-03	6.91E-03	6.91E-03	6.90E-03	6.90E-03	6.90E-03	6.90E-03	6.90E-03	6.90E-03	6.89E-03
NB 95	2.04E-03	7.54E-05	1.47E-06	2.82E-08	9.96E-12	3.65E-15	9.69E-18	2.57E-20	1.69E-37	1.11E-54	0.0
NB 95M	2.09E-20	2.55E-08	4.87E-10	9.32E-12	3.42E-15	1.25E-18	3.31E-21	8.77E-24	5.78E-41	3.81E-58	0.0
MO 95	0.0	5.08E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03
MO 99	8.54E-12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TC 99	4.19E+02	4.19E+02	4.19E+02	4.19E+02	4.19E+02	4.19E+02	4.19E+02	4.19E+02	4.19E+02	4.19E+02	4.19E+02
TC 99M	7.79E-13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU 99	0.0	1.36E-03	2.72E-03	4.09E-03	6.81E-03	9.53E-03	1.16E-02	1.36E-02	2.72E-02	4.09E-02	6.81E-02
RU103	6.10E-09	9.70E-12	1.54E-14	2.46E-17	6.21E-23	1.57E-28	9.98E-33	6.34E-37	0.0	0.0	0.0
RU106	7.24E-01	3.64E-01	1.83E-01	9.20E-02	2.33E-02	5.88E-03	2.10E-03	7.48E-04	7.73E-07	7.99E-10	8.53E-16
RH103	0.0	6.09E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09
RH103M	1.94E-34	8.68E-15	1.38E-17	2.20E-20	5.56E-26	1.41E-31	8.93E-36	5.67E-40	0.0	0.0	0.0
RH106	6.80E-07	3.42E-07	1.72E-07	8.65E-08	2.19E-08	5.53E-09	1.97E-09	7.03E-10	7.27E-13	7.51E-16	8.02E-22
PD106	0.0	3.60E-01	5.41E-01	6.32E-01	7.01E-01	7.18E-01	7.22E-01	7.23E-01	7.24E-01	7.24E-01	7.24E-01
PD107	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03
PD108	0.0	8.11E-06	1.62E-05	2.42E-05	4.01E-05	5.59E-05	6.75E-05	7.91E-05	1.54E-04	2.25E-04	3.56E-04
PD110	0.0	6.05E-08	8.24E-08	9.04E-08	9.43E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08
AG107	0.0	6.81E-10	1.36E-09	2.04E-09	3.41E-09	4.77E-09	5.79E-09	6.81E-09	1.36E-08	2.04E-08	3.41E-08
AG108	4.09E-12	5.13E-12	5.10E-12	5.07E-12	5.02E-12	4.96E-12	4.92E-12	4.88E-12	4.62E-12	4.38E-12	3.92E-12
AG108M	1.63E-03	1.62E-03	1.61E-03	1.61E-03	1.59E-03	1.57E-03	1.56E-03	1.55E-03	1.46E-03	1.39E-03	1.24E-03
AG110	4.36E-11	1.31E-11	4.76E-12	1.73E-12	2.28E-13	3.00E-14	6.57E-15	1.44E-15	5.74E-20	2.29E-24	3.65E-33
AG110M	2.38E-03	8.64E-04	3.14E-04	1.14E-04	1.50E-05	1.98E-06	4.34E-07	9.49E-08	3.79E-12	1.51E-16	2.41E-25
CD108	0.0	7.72E-07	1.54E-06	2.30E-06	3.82E-06	5.32E-06	6.43E-06	7.53E-06	1.47E-05	2.14E-05	3.39E-05
CD110	0.0	1.52E-03	2.07E-03	2.27E-03	2.36E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03
SN126	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00
SB125	5.01E-01	3.90E-01	3.03E-01	2.36E-01	1.43E-01	8.64E-02	5.93E-02	4.07E-02	3.30E-03	2.68E-04	1.77E-06
SB126	1.18E-09	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07
SB126M	9.01E-12	9.83E-10	9.83E-10	9.83E-10	9.83E-10	9.83E-10	9.83E-10	9.83E-10	9.83E-10	9.83E-10	9.83E-10
TE125	0.0	1.16E-01	2.03E-01	2.72E-01	3.66E-01	4.23E-01	4.51E-01	4.69E-01	5.07E-01	5.10E-01	5.11E-01
TE125M	9.84E-03	5.51E-03	4.26E-03	3.31E-03	2.00E-03	1.21E-03	8.32E-04	5.71E-04	4.64E-05	3.77E-06	2.49E-08
TE126	0.0	1.87E-05	3.76E-05	5.65E-05	9.42E-05	1.32E-04	1.60E-04	1.88E-04	3.77E-04	5.66E-04	9.43E-04
I 129	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04
I 131	2.50E-11	5.32E-25	1.13E-38	2.42E-52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE129	0.0	1.31E-03	2.62E-03	3.93E-03	6.55E-03	9.17E-03	1.11E-02	1.31E-02	2.62E-02	3.93E-02	6.55E-02
XE131	0.0	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11

XR131M	0.0	4.93E-22	2.85E-31	1.64E-40	5.46E-59	1.82E-77	2.52E-91	3.49-105	0.0	0.0	0.0
CS134	3.12E+00	2.23E+00	1.59E+00	1.14E+00	5.81E-01	2.97E-01	1.79E-01	1.08E-01	3.76E-03	1.30E-04	1.57E-07
CS135	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.61E+01
CS137	2.27E+02	2.22E+02	2.17E+02	2.12E+02	2.02E+02	1.93E+02	1.86E+02	1.80E+02	1.43E+02	1.13E+02	7.15E+01
BA134	0.0	8.90E-01	1.53E+00	1.98E+00	2.54E+00	2.82E+00	2.94E+00	3.01E+00	3.11E+00	3.12E+00	3.12E+00
BA135	0.0	1.99E-05	3.98E-05	5.97E-05	9.95E-05	1.39E-04	1.69E-04	1.99E-04	3.98E-04	5.97E-04	9.95E-04
BA137	0.0	5.18E+00	1.02E+01	1.52E+01	2.47E+01	3.39E+01	4.04E+01	4.68E+01	8.39E+01	1.13E+02	1.55E+02
BA137M	3.56E-05	3.39E-05	3.31E-05	3.24E-05	3.09E-05	2.95E-05	2.85E-05	2.75E-05	2.19E-05	1.74E-05	1.09E-05
CE140	0.0	4.86E-17	1.15E-16	1.88E-16	3.41E-16	4.97E-16	6.15E-16	7.32E-16	1.51E-15	2.30E-15	3.86E-15
CE144	1.35E-01	5.55E-02	2.28E-02	9.36E-03	1.58E-03	2.66E-04	6.99E-05	1.84E-05	2.50E-09	3.39E-13	6.25E-21
PR144	5.71E-06	2.35E-06	9.63E-07	3.95E-07	6.66E-08	1.12E-08	2.95E-09	7.76E-10	1.05E-13	1.43E-17	2.64E-25
PR144M	2.90E-08	1.17E-08	4.81E-09	1.98E-09	3.33E-10	5.61E-11	1.48E-11	3.88E-12	5.27E-16	7.15E-20	1.32E-27
ND143	0.0	2.40E-12	7.15E-12	1.37E-11	3.07E-11	5.10E-11	6.76E-11	8.49E-11	2.08E-10	3.33E-10	5.84E-10
ND144	1.02E-01	1.81E-01	2.14E-01	2.28E-01	2.35E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01
PM147	1.79E+00	1.37E+00	1.05E+00	8.08E-01	4.76E-01	2.81E-01	1.89E-01	1.27E-01	9.06E-03	6.46E-04	3.28E-06
SM147	1.54E-01	5.68E-01	8.86E-01	1.13E+00	1.46E+00	1.66E+00	1.75E+00	1.81E+00	1.93E+00	1.94E+00	1.94E+00
SM148	1.81E-16	2.29E-16	2.87E-16	3.54E-16	5.15E-16	7.07E-16	8.70E-16	1.05E-15	2.55E-15	4.43E-15	8.78E-15
SM151	5.03E-02	5.00E-02	4.96E-02	4.92E-02	4.84E-02	4.77E-02	4.72E-02	4.66E-02	4.32E-02	4.00E-02	3.43E-02
SM152	0.0	4.05E-03	7.91E-03	1.16E-02	1.84E-02	2.45E-02	2.87E-02	3.26E-02	5.21E-02	6.39E-02	7.52E-02
EU151	0.0	3.86E-04	7.69E-04	1.15E-03	1.90E-03	2.64E-03	3.19E-03	3.73E-03	7.19E-03	1.04E-02	1.61E-02
EU152	1.13E-01	1.07E-01	1.02E-01	9.71E-02	8.77E-02	7.92E-02	7.33E-02	6.79E-02	4.08E-02	2.45E-02	8.85E-03
EU154	2.60E+00	2.40E+00	2.21E+00	2.04E+00	1.74E+00	1.48E+00	1.31E+00	1.16E+00	5.19E-01	2.32E-01	4.63E-02
EU155	1.31E-01	1.14E-01	9.92E-02	8.63E-02	6.52E-02	4.93E-02	4.00E-02	3.24E-02	8.02E-03	1.98E-03	1.21E-04
GD152	6.69E-03	8.26E-03	9.75E-03	1.12E-02	1.38E-02	1.61E-02	1.78E-02	1.93E-02	2.68E-02	3.14E-02	3.57E-02
GD154	0.0	2.01E-01	3.87E-01	5.58E-01	8.62E-01	1.12E+00	1.29E+00	1.44E+00	2.08E+00	2.37E+00	2.55E+00
GD155	0.0	1.71E-02	3.20E-02	4.49E-02	6.60E-02	8.19E-02	9.12E-02	9.88E-02	1.23E-01	1.29E-01	1.31E-01
TOTAL	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04

NUCLIDE CONCENTRATIONS, GRAMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
H 3	7.56E+01	7.15E+01	6.76E+01	6.39E+01	5.71E+01	5.11E+01	4.69E+01	4.31E+01	2.46E+01	1.40E+01	4.57E+00
SE 79	4.66E+01	4.66E+01	4.66E+01	4.66E+01	4.66E+01	4.66E+01	4.66E+01	4.66E+01	4.66E+01	4.65E+01	4.65E+01
BR 79	0.0	4.97E-04	9.93E-04	1.49E-03	2.48E-03	3.48E-03	4.22E-03	4.97E-03	9.93E-03	1.49E-02	2.48E-02
RB 87	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01
SR 87	0.0	3.19E-10	6.38E-10	9.57E-10	1.60E-09	2.23E-09	2.71E-09	3.19E-09	6.38E-09	9.57E-09	1.60E-08
SR 89	5.67E-05	3.78E-07	2.51E-09	1.67E-11	7.41E-16	3.28E-20	1.78E-23	9.67E-27	0.0	0.0	0.0
SR 90	9.91E+03	9.67E+03	9.45E+03	9.22E+03	8.80E+03	8.39E+03	8.09E+03	7.81E+03	6.16E+03	4.85E+03	3.01E+03
Y 89	0.0	5.64E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05
Y 90	2.48E+00	2.43E+00	2.37E+00	2.31E+00	2.21E+00	2.10E+00	2.03E+00	1.96E+00	1.54E+00	1.22E+00	7.56E-01
ZR 90	0.0	2.33E+02	4.61E+02	6.83E+02	1.11E+03	1.52E+03	1.81E+03	2.10E+03	3.75E+03	5.06E+03	6.89E+03
ZR 93	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04
ZR 95	3.02E-01	5.78E-03	1.11E-04	2.12E-06	7.75E-10	2.84E-13	7.52E-16	1.99E-18	1.31E-35	8.66E-53	0.0
NB 93	0.0	4.54E-03	9.10E-03	1.37E-02	2.29E-02	3.21E-02	3.91E-02	4.61E-02	9.32E-02	1.41E-01	2.37E-01
NB 93M	8.41E-02	8.45E-02	8.48E-02	8.51E-02	8.57E-02	8.62E-02	8.65E-02	8.68E-02	8.84E-02	8.94E-02	9.03E-02
NB 94	6.49E-01	6.49E-01	6.49E-01	6.49E-01	6.49E-01	6.49E-01	6.49E-01	6.49E-01	6.49E-01	6.48E-01	6.48E-01
NB 96	1.94E-01	7.16E-03	1.40E-04	2.68E-06	9.46E-10	3.46E-13	9.21E-16	2.44E-18	1.60E-35	1.06E-52	0.0
NB 95M	1.99E-18	2.42E-06	4.63E-08	8.86E-10	3.24E-13	1.19E-16	3.15E-19	8.33E-22	5.50E-39	3.62E-56	0.0
MO 95	0.0	4.83E-01	4.95E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01
MO 99	8.45E-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TC 99	4.15E+04	4.15E+04	4.14E+04	4.14E+04	4.14E+04	4.14E+04	4.14E+04	4.14E+04	4.14E+04	4.14E+04	4.14E+04
TC 99M	7.71E-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU 99	0.0	1.35E-01	2.70E-01	4.05E-01	6.74E-01	9.44E-01	1.15E+00	1.35E+00	2.70E+00	4.05E+00	6.74E+00
RU103	6.28E-07	9.99E-10	1.59E-12	2.53E-15	6.40E-21	1.62E-26	1.03E-30	6.53E-35	0.0	0.0	0.0
RU106	7.67E+01	3.86E+01	1.94E+01	9.76E+00	2.47E+00	6.24E-01	2.22E-01	7.93E-02	8.20E-05	8.47E-08	9.05E-14
RH103	0.0	6.27E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07
RH103M	1.99E-32	8.94E-13	1.42E-15	2.26E-18	5.72E-24	1.45E-29	9.20E-34	5.84E-38	0.0	0.0	0.0
RH106	7.21E-05	3.63E-05	1.82E-05	9.17E-06	2.32E-06	5.86E-07	2.09E-07	7.45E-08	7.70E-11	7.96E-14	8.50E-20
PD106	0.0	3.82E+01	5.73E+01	6.70E+01	7.43E+01	7.61E+01	7.65E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01
PD107	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01
PD108	0.0	8.76E-04	1.75E-03	2.61E-03	4.33E-03	6.03E-03	7.29E-03	8.55E-03	1.66E-02	2.43E-02	3.84E-02
PD110	0.0	6.65E-06	9.07E-06	9.94E-06	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05
AG107	0.0	7.29E-08	1.46E-07	2.19E-07	3.64E-07	5.10E-07	6.19E-07	7.29E-07	1.46E-06	2.19E-06	3.64E-06
AG108	4.41E-10	5.54E-10	5.51E-10	5.48E-10	5.42E-10	5.36E-10	5.31E-10	5.27E-10	4.99E-10	4.73E-10	4.24E-10
AG108M	1.76E-01	1.75E-01	1.74E-01	1.73E-01	1.72E-01	1.70E-01	1.68E-01	1.67E-01	1.58E-01	1.50E-01	1.34E-01
AG110	4.80E-09	1.44E-09	5.23E-10	1.90E-10	2.51E-11	3.30E-12	7.23E-13	1.58E-13	6.31E-18	2.62E-22	4.01E-31
AG110M	2.62E-01	9.50E-02	3.45E-02	1.25E-02	1.65E-03	2.18E-04	4.77E-05	1.04E-05	4.17E-10	1.66E-14	2.65E-23
CD108	0.0	8.34E-05	1.66E-04	2.49E-04	4.12E-04	5.74E-04	6.94E-04	8.14E-04	1.58E-03	2.31E-03	3.66E-03
CD110	0.0	1.67E-01	2.27E-01	2.49E-01	2.60E-01	2.61E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01
SN126	3.43E+02	3.43E+02	3.43E+02	3.43E+02	3.43E+02	3.43E+02	3.43E+02	3.43E+02	3.43E+02	3.43E+02	3.43E+02
SB125	6.26E+01	4.87E+01	3.79E+01	2.95E+01	1.78E+01	1.08E+01	7.41E+00	5.09E+00	4.13E-01	3.36E-02	2.21E-04
SB126	1.49E-07	1.63E-05	1.63E-05	1.63E-05	1.63E-05	1.63E-05	1.63E-05	1.63E-05	1.63E-05	1.63E-05	1.63E-05
SB126M	1.14E-09	1.24E-07	1.24E-07	1.24E-07	1.24E-07	1.24E-07	1.24E-07	1.24E-07	1.24E-07	1.24E-07	1.24E-07
TE125	0.0	1.44E+01	2.54E+01	3.39E+01	4.57E+01	5.29E+01	5.63E+01	5.87E+01	6.34E+01	6.38E+01	6.38E+01
TE125M	1.23E+00	6.88E-01	5.32E-01	4.14E-01	2.51E-01	1.62E-01	1.04E-01	7.14E-02	5.80E-03	4.71E-04	3.11E-06
TE126	0.0	2.36E-03	4.74E-03	7.11E-03	1.19E-02	1.66E-02	2.02E-02	2.37E-02	4.75E-02	7.13E-02	1.19E-01
I 129	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06
I 131	3.27E-09	6.97E-23	1.49E-36	3.16E-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE129	0.0	1.69E-01	3.38E-01	5.07E-01	8.45E-01	1.18E+00	1.44E+00	1.69E+00	3.38E+00	5.07E+00	8.45E+00
XE131	0.0	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09

XE131M	0.0	6.46E-20	3.73E-29	2.15E-38	7.16E-57	2.38E-75	3.30E-89	4.58-103	0.0	0.0	0.0
CS134	4.18E+02	2.99E+02	2.13E+02	1.52E+02	7.78E+01	3.97E+01	2.40E+01	1.45E+01	5.03E-01	1.75E-02	2.10E-05
CS135	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.92E+03
CS137	3.11E+04	3.04E+04	2.97E+04	2.90E+04	2.77E+04	2.64E+04	2.55E+04	2.47E+04	1.96E+04	1.55E+04	9.79E+03
BA134	0.0	1.19E+02	2.04E+02	2.65E+02	3.40E+02	3.78E+02	3.94E+02	4.03E+02	4.17E+02	4.18E+02	4.18E+02
BA135	0.0	2.69E-03	5.38E-03	8.06E-03	1.34E-02	1.88E-02	2.28E-02	2.69E-02	5.38E-02	8.06E-02	1.34E-01
BA137	0.0	7.10E+02	1.40E+03	2.08E+03	3.39E+03	4.64E+03	5.54E+03	6.41E+03	1.15E+04	1.55E+04	2.13E+04
BA137M	4.87E-03	4.64E-03	4.54E-03	4.44E-03	4.23E-03	4.04E-03	3.91E-03	3.77E-03	2.99E-03	2.38E-03	1.50E-03
CE140	0.0	6.81E-15	1.61E-14	2.63E-14	4.78E-14	6.96E-14	8.61E-14	1.02E-13	2.12E-13	3.21E-13	5.40E-13
CE144	1.95E+01	8.00E+00	3.28E+00	1.35E+00	2.27E-01	3.83E-02	1.01E-02	2.65E-03	3.59E-07	4.88E-11	9.00E-19
PR144	8.23E-04	3.38E-04	1.39E-04	5.69E-05	9.59E-06	1.62E-06	4.25E-07	1.12E-07	1.52E-11	2.06E-15	3.80E-23
PR144M	4.17E-06	1.69E-06	6.93E-07	2.84E-07	4.79E-08	8.08E-09	2.12E-09	5.59E-10	7.59E-14	1.03E-17	1.90E-25
ND143	0.0	3.43E-10	1.02E-09	1.96E-09	4.39E-09	7.29E-09	9.67E-09	1.21E-08	2.97E-08	4.76E-08	8.35E-08
ND144	1.46E+01	2.61E+01	3.08E+01	3.28E+01	3.39E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01
PM147	2.62E+02	2.01E+02	1.55E+02	1.19E+02	7.00E+01	4.13E+01	2.78E+01	1.87E+01	1.33E+00	9.49E-02	4.82E-04
SM147	2.26E+01	8.35E+01	1.30E+02	1.66E+02	2.15E+02	2.44E+02	2.57E+02	2.66E+02	2.84E+02	2.85E+02	2.85E+02
SM148	2.69E-14	3.40E-14	4.25E-14	5.25E-14	7.62E-14	1.05E-13	1.29E-13	1.55E-13	3.77E-13	6.55E-13	1.30E-12
SM151	7.60E+00	7.54E+00	7.49E+00	7.43E+00	7.32E+00	7.20E+00	7.12E+00	7.04E+00	6.52E+00	6.03E+00	5.17E+00
SM152	0.0	6.16E-01	1.20E+00	1.76E+00	2.79E+00	3.72E+00	4.36E+00	4.95E+00	7.93E+00	9.71E+00	1.14E+01
EU151	0.0	5.83E-02	1.16E-01	1.74E-01	2.87E-01	3.99E-01	4.82E-01	5.63E-01	1.09E+00	1.57E+00	2.43E+00
EU152	1.72E+01	1.63E+01	1.55E+01	1.48E+01	1.33E+01	1.20E+01	1.11E+01	1.03E+01	6.21E+00	3.73E+00	1.35E+00
EU154	4.01E+02	3.70E+02	3.41E+02	3.15E+02	2.68E+02	2.28E+02	2.02E+02	1.79E+02	7.99E+01	3.57E+01	7.13E+00
EU155	2.03E+01	1.77E+01	1.54E+01	1.34E+01	1.01E+01	7.65E+00	6.20E+00	5.03E+00	1.24E+00	3.07E-01	1.88E-02
GD152	1.02E+00	1.26E+00	1.48E+00	1.70E+00	2.09E+00	2.45E+00	2.70E+00	2.93E+00	4.08E+00	4.77E+00	5.43E+00
GD154	0.0	3.10E+01	5.96E+01	8.60E+01	1.33E+02	1.73E+02	1.99E+02	2.22E+02	3.21E+02	3.65E+02	3.93E+02
GD155	0.0	2.65E+00	4.96E+00	6.96E+00	1.02E+01	1.27E+01	1.41E+01	1.53E+01	1.91E+01	2.00E+01	2.03E+01
TOTAL	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
H 3	2.70E+16	2.55E+16	2.41E+16	2.28E+16	2.04E+16	1.82E+16	1.68E+16	1.54E+16	8.79E+15	5.02E+15	1.63E+15
SE 79	1.20E+11	1.20E+11	1.20E+11	1.20E+11	1.20E+11	1.20E+11	1.20E+11	1.20E+11	1.20E+11	1.20E+11	1.20E+11
RB 87	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04
SR 89	6.10E+10	4.06E+08	2.70E+06	1.80E+04	7.97E-01	3.53E-05	1.92E-08	1.04E-11	0.0	0.0	0.0
SR 90	5.00E+16	4.88E+16	4.77E+16	4.66E+16	4.44E+16	4.23E+16	4.09E+16	3.94E+16	3.11E+16	2.45E+16	1.52E+16
Y 90	5.00E+16	4.89E+16	4.77E+16	4.66E+16	4.44E+16	4.24E+16	4.09E+16	3.94E+16	3.11E+16	2.45E+16	1.52E+16
ZR 93	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12
ZR 95	2.40E+14	4.60E+12	8.80E+10	1.68E+09	6.17E+05	2.26E+02	5.98E-01	1.58E-03	1.04E-20	6.89E-38	0.0
NB 93M	8.80E+11	8.84E+11	8.87E+11	8.90E+11	8.96E+11	9.01E+11	9.05E+11	9.08E+11	9.25E+11	9.35E+11	9.45E+11
NB 94	4.50E+09	4.50E+09	4.50E+09	4.50E+09	4.50E+09	4.50E+09	4.50E+09	4.50E+09	4.50E+09	4.50E+09	4.49E+09
NB 95	2.80E+14	1.04E+13	2.02E+11	3.87E+09	1.37E+06	5.01E+02	1.33E+00	3.53E-03	2.32E-20	1.53E-37	0.0
NB 95M	2.80E-02	3.41E+10	6.52E+08	1.25E+07	4.57E+03	1.68E+00	4.44E-03	1.17E-05	7.75E-23	5.11E-40	0.0
MO 99	1.50E+07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TC 99	2.60E+13	2.60E+13	2.60E+13	2.60E+13	2.60E+13	2.60E+13	2.60E+13	2.60E+13	2.60E+13	2.60E+13	2.60E+13
TC 99M	1.50E+07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	7.50E+08	1.19E+06	1.90E+03	3.02E+00	7.65E-06	1.94E-11	1.23E-15	7.80E-20	0.0	0.0	0.0
RU106	9.50E+15	4.78E+15	2.40E+15	1.21E+15	3.06E+14	7.73E+13	2.75E+13	9.82E+12	1.02E+10	1.05E+07	1.12E+01
RH103M	2.40E-14	1.08E+06	1.71E+03	2.72E+00	6.89E-06	1.74E-11	1.11E-15	7.03E-20	0.0	0.0	0.0
RH106	9.50E+15	4.78E+15	2.40E+15	1.21E+15	3.06E+14	7.73E+13	2.75E+13	9.82E+12	1.02E+10	1.05E+07	1.12E+01
PD107	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07
AG108	1.20E+10	1.51E+10	1.50E+10	1.49E+10	1.47E+10	1.46E+10	1.45E+10	1.43E+10	1.36E+10	1.29E+10	1.15E+10
AG108M	1.70E+11	1.69E+11	1.68E+11	1.67E+11	1.65E+11	1.64E+11	1.62E+11	1.61E+11	1.52E+11	1.44E+11	1.29E+11
AG110	7.40E+11	2.22E+11	8.07E+10	2.93E+10	3.87E+09	5.10E+08	1.12E+08	2.44E+07	9.74E+02	3.89E-02	6.19E-11
AG110M	4.60E+13	1.67E+13	6.07E+12	2.20E+12	2.91E+11	3.83E+10	8.39E+09	1.84E+09	7.33E+04	2.92E+00	4.65E-09
SN126	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11
SB125	2.40E+15	1.87E+15	1.45E+15	1.13E+15	6.84E+14	4.14E+14	2.84E+14	1.95E+14	1.58E+13	1.29E+12	8.49E+09
SB126	4.60E+08	5.04E+10	5.04E+10	5.04E+10	5.04E+10	5.04E+10	5.04E+10	5.04E+10	5.04E+10	5.04E+10	5.04E+10
SB126M	3.30E+09	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11
TE125M	8.20E+14	4.59E+14	3.55E+14	2.76E+14	1.67E+14	1.01E+14	6.94E+13	4.76E+13	3.87E+12	3.14E+11	2.07E+09
I 129	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13
I 131	1.50E+07	3.20E-07	6.81E-21	1.45E-34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE131M	0.0	2.00E-04	1.16E-13	6.67E-23	2.22E-41	7.39E-60	1.02E-73	1.42E-87	0.0	0.0	0.0
CS134	2.00E+16	1.43E+16	1.02E+16	7.30E+15	3.73E+15	1.90E+15	1.15E+15	6.94E+14	2.41E+13	8.36E+11	1.01E+09
CS135	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11
CS137	1.00E+17	9.78E+16	9.55E+16	9.33E+16	8.91E+16	8.51E+16	8.22E+16	7.94E+16	6.30E+16	5.00E+16	3.15E+16
BA137M	9.70E+16	9.25E+16	9.04E+16	8.83E+16	8.43E+16	8.05E+16	7.78E+16	7.51E+16	5.96E+16	4.73E+16	2.98E+16
CE144	2.30E+15	9.45E+14	3.88E+14	1.59E+14	2.68E+13	4.52E+12	1.19E+12	3.12E+11	4.24E+07	5.76E+03	1.06E-04
PR144	2.30E+15	9.45E+14	3.88E+14	1.59E+14	2.68E+13	4.52E+12	1.19E+12	3.13E+11	4.24E+07	5.76E+03	1.06E-04
PR144M	2.80E+13	1.13E+13	4.65E+12	1.91E+12	3.22E+11	5.42E+10	1.43E+10	3.75E+09	5.09E+05	6.92E+01	1.28E-06
ND144	6.40E-01	1.14E+00	1.35E+00	1.43E+00	1.48E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00
PM147	9.00E+15	6.91E+15	5.31E+15	4.08E+15	2.40E+15	1.42E+15	9.53E+14	6.42E+14	4.57E+13	3.26E+12	1.65E+10
SM147	1.90E+04	7.02E+04	1.10E+05	1.40E+05	1.81E+05	2.05E+05	2.16E+05	2.24E+05	2.39E+05	2.40E+05	2.40E+05
SM148	3.00E-16	3.80E-16	4.75E-16	5.86E-16	8.51E-16	1.17E-15	1.44E-15	1.73E-15	4.22E-15	7.32E-15	1.45E-14
SM151	7.40E+12	7.35E+12	7.29E+12	7.23E+12	7.12E+12	7.01E+12	6.93E+12	6.85E+12	6.35E+12	5.88E+12	5.04E+12
EU152	1.10E+14	1.05E+14	9.94E+13	9.44E+13	8.53E+13	7.70E+13	7.14E+13	6.61E+13	3.97E+13	2.39E+13	8.61E+12
EU154	4.00E+15	3.69E+15	3.41E+15	3.14E+15	2.67E+15	2.28E+15	2.02E+15	1.79E+15	7.99E+14	3.57E+14	7.12E+13
EU155	3.50E+14	3.04E+14	2.65E+14	2.30E+14	1.74E+14	1.32E+14	1.07E+14	8.66E+13	2.14E+13	5.29E+12	3.24E+11
GD152	8.20E-01	1.01E+00	1.19E+00	1.37E+00	1.69E+00	1.98E+00	2.18E+00	2.36E+00	3.29E+00	3.84E+00	4.38E+00
TOTAL	3.85E+17	3.53E+17	3.32E+17	3.17E+17	2.93E+17	2.75E+17	2.63E+17	2.52E+17	1.95E+17	1.52E+17	9.36E+16

FISSION PRODUCTS

NUCLIDE THERMAL POWER, WATTS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
H 3	2.47E+01	2.33E+01	2.20E+01	2.08E+01	1.86E+01	1.67E+01	1.53E+01	1.41E+01	8.03E+00	4.58E+00	1.49E+00
SE 79	8.08E-04	8.08E-04	8.08E-04	8.08E-04	8.08E-04	8.08E-04	8.08E-04	8.08E-04	8.08E-04	8.08E-04	8.07E-04
RB 87	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09
SR 89	5.70E-03	3.79E-05	2.53E-07	1.68E-09	7.44E-14	3.30E-18	1.79E-21	9.72E-25	0.0	0.0	0.0
SR 90	1.57E+03	1.53E+03	1.50E+03	1.46E+03	1.39E+03	1.33E+03	1.28E+03	1.24E+03	9.75E+02	7.68E+02	4.77E+02
Y 90	7.49E+03	7.32E+03	7.15E+03	6.98E+03	6.65E+03	6.34E+03	6.12E+03	5.91E+03	4.66E+03	3.67E+03	2.28E+03
ZR 93	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03
ZR 95	3.29E+01	6.29E-01	1.20E-02	2.30E-04	8.44E-08	3.09E-11	8.19E-14	2.17E-16	1.43E-33	9.43E-51	0.0
NB 93M	4.22E-03	4.23E-03	4.25E-03	4.26E-03	4.29E-03	4.32E-03	4.34E-03	4.35E-03	4.43E-03	4.48E-03	4.53E-03
NB 94	1.24E-03	1.24E-03	1.24E-03	1.24E-03	1.24E-03	1.24E-03	1.24E-03	1.24E-03	1.24E-03	1.24E-03	1.24E-03
NB 95	3.63E+01	1.34E+00	2.62E-02	5.02E-04	1.77E-07	6.50E-11	1.73E-13	4.57E-16	3.01E-33	1.98E-50	0.0
NB 95M	1.05E-15	1.28E-03	2.45E-05	4.69E-07	1.72E-10	6.29E-14	1.67E-16	4.41E-19	2.91E-36	1.92E-53	0.0
MO 99	1.30E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TC 99	3.53E-01	3.53E-01	3.53E-01	3.53E-01	3.53E-01	3.53E-01	3.53E-01	3.53E-01	3.53E-01	3.53E-01	3.52E-01
TC 99M	3.42E-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	6.81E-05	1.08E-07	1.72E-10	2.74E-13	6.94E-19	1.76E-24	1.11E-28	7.07E-33	0.0	0.0	0.0
RU106	1.52E+01	7.66E+00	3.85E+00	1.94E+00	4.89E-01	1.24E-01	4.41E-02	1.57E-02	1.63E-05	1.68E-08	1.79E-14
RH103M	1.49E-28	6.69E-09	1.06E-11	1.69E-14	4.29E-20	1.08E-25	6.88E-30	4.37E-34	0.0	0.0	0.0
RH106	2.46E+03	1.24E+03	6.23E+02	3.13E+02	7.92E+01	2.00E+01	7.14E+00	2.55E+00	2.63E-03	2.72E-06	2.90E-12
PD107	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08
AG108	1.21E-03	1.52E-03	1.51E-03	1.50E-03	1.48E-03	1.47E-03	1.46E-03	1.44E-03	1.37E-03	1.29E-03	1.16E-03
AG108M	4.47E-02	4.45E-02	4.42E-02	4.40E-02	4.36E-02	4.30E-02	4.27E-02	4.23E-02	4.01E-02	3.80E-02	3.40E-02
AG110	1.44E-01	4.32E-02	1.57E-02	5.69E-03	7.51E-04	9.90E-05	2.17E-05	4.74E-06	1.89E-10	7.55E-15	1.20E-23
AG110M	2.08E+01	7.54E+00	2.74E+00	9.95E-01	1.31E-01	1.73E-02	3.79E-03	8.29E-04	3.31E-08	1.32E-12	2.10E-21
SN126	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02
SB125	2.03E+02	1.58E+02	1.23E+02	9.55E+01	5.78E+01	3.50E+01	2.40E+01	1.65E+01	1.34E+00	1.09E-01	7.17E-04
SB126	2.30E-04	2.52E-02	2.52E-02	2.52E-02	2.52E-02	2.52E-02	2.52E-02	2.52E-02	2.52E-02	2.52E-02	2.52E-02
SB126M	1.14E-03	1.24E-01	1.24E-01	1.24E-01	1.24E-01	1.24E-01	1.24E-01	1.24E-01	1.24E-01	1.24E-01	1.24E-01
TE125M	1.86E+01	1.04E+01	8.06E+00	6.27E+00	3.79E+00	2.30E+00	1.58E+00	1.08E+00	8.78E-02	7.13E-03	4.71E-05
I 129	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01
I 131	1.38E-06	2.94E-20	6.26E-34	1.33E-47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE131M	0.0	5.21E-18	3.01E-27	1.73E-36	5.77E-55	1.92E-73	2.66E-87	3.69-101	0.0	0.0	0.0
CS134	5.50E+03	3.93E+03	2.81E+03	2.01E+03	1.03E+03	5.24E+02	3.16E+02	1.91E+02	6.63E+00	2.30E-01	2.77E-04
CS135	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03
CS137	2.99E+03	2.92E+03	2.86E+03	2.79E+03	2.66E+03	2.54E+03	2.46E+03	2.37E+03	1.88E+03	1.50E+03	9.42E+02
BA137M	1.03E+04	9.81E+03	9.59E+03	9.37E+03	8.95E+03	8.54E+03	8.25E+03	7.97E+03	6.33E+03	5.02E+03	3.16E+03
CE144	4.12E+01	1.69E+01	6.95E+00	2.85E+00	4.81E-01	8.10E-02	2.13E-02	5.60E-03	7.61E-07	1.03E-10	1.91E-18
PR144	4.57E+02	1.88E+02	7.70E+01	3.16E+01	5.33E+00	8.98E-01	2.36E-01	6.21E-02	8.43E-06	1.15E-09	2.11E-17
PR144M	2.59E-01	1.05E-01	4.30E-02	1.77E-02	2.97E-03	5.01E-04	1.32E-04	3.47E-05	4.71E-09	6.39E-13	1.18E-20
PM147	8.73E+01	6.70E+01	5.15E+01	3.95E+01	2.33E+01	1.37E+01	9.24E+00	6.22E+00	4.43E-01	3.16E-02	1.60E-04
SM147	7.03E-09	2.60E-08	4.06E-08	5.17E-08	6.69E-08	7.59E-08	8.01E-08	8.29E-08	8.83E-08	8.87E-08	8.87E-08
SM148	9.68E-29	1.22E-28	1.53E-28	1.89E-28	2.75E-28	3.77E-28	4.64E-28	5.60E-28	1.36E-27	2.36E-27	4.69E-27
SM151	2.35E-02	2.33E-02	2.31E-02	2.29E-02	2.26E-02	2.23E-02	2.20E-02	2.17E-02	2.01E-02	1.86E-02	1.60E-02
EU152	2.25E+01	2.14E+01	2.04E+01	1.94E+01	1.75E+01	1.58E+01	1.46E+01	1.35E+01	8.14E+00	4.89E+00	1.76E+00
EU154	9.67E+02	8.93E+02	8.23E+02	7.60E+02	6.47E+02	5.50E+02	4.88E+02	4.32E+02	1.93E+02	8.63E+01	1.72E+01
EU155	6.88E+00	5.99E+00	5.20E+00	4.53E+00	3.42E+00	2.59E+00	2.10E+00	1.70E+00	4.21E-01	1.04E-01	6.36E-03
GD152	2.89E-13	3.56E-13	4.21E-13	4.82E-13	5.95E-13	6.97E-13	7.67E-13	8.32E-13	1.16E-12	1.35E-12	1.54E-12
TOTAL	3.23E+04	2.82E+04	2.57E+04	2.39E+04	2.15E+04	1.99E+04	1.90E+04	1.82E+04	1.41E+04	1.11E+04	6.89E+03

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

		CONCENTRATIONS ,GRAMATOMS										
		INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
TOTAL		2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06
		CONCENTRATIONS ,GRAMS										
		INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
TOTAL		6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08
		RADIOACTIVITY ,BECQUEREL										
		INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
TOTAL		8.11E+17	7.44E+17	6.93E+17	6.50E+17	5.82E+17	5.29E+17	4.95E+17	4.65E+17	3.29E+17	2.48E+17	1.55E+17
		THERMAL POWER ,WATTS										
		INITIAL	.100E+1 Y	.200E+1 Y	.300E+1 Y	.500E+1 Y	.700E+1 Y	.850E+1 Y	.100E+2 Y	.200E+2 Y	.300E+2 Y	.500E+2 Y
TOTAL		1.18E+05	1.06E+05	9.60E+04	8.79E+04	7.50E+04	6.53E+04	5.96E+04	5.49E+04	3.75E+04	3.06E+04	2.40E+04

NUCLIDE CONCENTRATIONS, GRAM ATOMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
BE 10	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07
B 10	2.88E-12	4.03E-12	4.90E-12	5.76E-12	1.15E-11	1.73E-11	2.88E-11	4.03E-11	4.90E-11	5.76E-11	1.15E-10
C 14	3.57E+01	3.56E+01	3.56E+01	3.55E+01	3.51E+01	3.47E+01	3.38E+01	3.30E+01	3.24E+01	3.19E+01	2.82E+01
N 14	2.17E-01	3.03E-01	3.68E-01	4.32E-01	8.59E-01	1.28E+00	2.11E+00	2.92E+00	3.51E+00	4.10E+00	7.72E+00
NE 22	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03
NA 22	2.46E-09	1.20E-11	2.20E-13	4.05E-15	1.10E-26	2.98E-38	0.0	0.0	0.0	0.0	0.0
S 36	5.47E-06	7.66E-06	9.31E-06	1.09E-05	2.19E-05	3.28E-05	5.47E-05	7.66E-05	9.30E-05	1.09E-04	2.18E-04
CL 35	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07
CL 36	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.49E+00
AR 36	2.83E-04	3.96E-04	4.80E-04	5.65E-04	1.13E-03	1.70E-03	2.83E-03	3.95E-03	4.80E-03	5.65E-03	1.13E-02
AR 39	1.77E-05	1.68E-05	1.62E-05	1.56E-05	1.20E-05	9.30E-06	5.55E-06	3.32E-06	2.25E-06	1.53E-06	1.16E-07
K 39	2.43E-06	3.32E-06	3.96E-06	4.57E-06	8.11E-06	1.08E-05	1.46E-05	1.68E-05	1.79E-05	1.86E-05	2.00E-05
K 41	3.93E-04	5.50E-04	6.68E-04	7.86E-04	1.57E-03	2.35E-03	3.92E-03	5.48E-03	6.66E-03	7.82E-03	1.56E-02
CA 41	9.18E-01	9.18E-01	9.18E-01	9.18E-01	9.17E-01	9.16E-01	9.15E-01	9.13E-01	9.12E-01	9.11E-01	9.03E-01
CA 45	1.26E-39	4.09E-53	3.11E-63	2.37E-73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SC 45	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06
TI 46	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07
TI 49	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07
V 49	1.02E-23	2.23E-30	2.24E-35	2.26E-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V 51	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07
CR 54	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02
MN 54	4.34E-20	4.00E-27	2.12E-32	1.12E-37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MN 55	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00
FE 55	8.65E-06	4.19E-08	7.68E-10	1.41E-11	3.75E-23	9.96E-35	0.0	0.0	0.0	0.0	0.0
FE 58	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05
CO 59	1.18E+00	1.65E+00	2.00E+00	2.36E+00	4.71E+00	7.06E+00	1.18E+01	1.65E+01	2.00E+01	2.35E+01	4.67E+01
CO 60	8.89E-02	6.41E-03	8.91E-04	1.24E-04	2.41E-10	4.69E-16	1.77E-27	6.71E-39	1.82E-47	4.94E-56	0.0
NI 59	2.72E+03	2.72E+03	2.72E+03	2.72E+03	2.72E+03	2.71E+03	2.71E+03	2.71E+03	2.70E+03	2.70E+03	2.67E+03
NI 60	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01
NI 63	1.81E+02	1.56E+02	1.39E+02	1.24E+02	5.86E+01	2.76E+01	6.12E+00	1.36E+00	4.38E-01	1.41E-01	7.58E-05
CU 63	8.29E+01	1.08E+02	1.25E+02	1.40E+02	2.06E+02	2.37E+02	2.58E+02	2.63E+02	2.64E+02	2.64E+02	2.64E+02
CU 65	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03
ZN 65	3.80E-26	3.67E-35	6.36E-42	1.10E-48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NB 93	1.15E-07	1.60E-07	1.94E-07	2.28E-07	4.52E-07	6.71E-07	1.10E-06	1.51E-06	1.80E-06	2.09E-06	3.81E-06
MO 93	1.15E-05	1.15E-05	1.14E-05	1.14E-05	1.12E-05	1.10E-05	1.05E-05	1.01E-05	9.83E-06	9.55E-06	7.83E-06
Ta182	1.57E-52	1.20E-71	5.50E-86	2.53-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W 182	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05
TOTAL	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03

LIGHT ELEMENTS

NUCLIDE CONCENTRATIONS, GRAMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
BE 10	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06
B 10	2.88E-11	4.03E-11	4.90E-11	5.76E-11	1.15E-10	1.73E-10	2.88E-10	4.03E-10	4.90E-10	5.76E-10	1.15E-09
C 14	5.00E+02	4.99E+02	4.98E+02	4.97E+02	4.91E+02	4.85E+02	4.74E+02	4.62E+02	4.54E+02	4.46E+02	3.95E+02
N 14	3.03E+00	4.24E+00	5.15E+00	6.05E+00	1.20E+01	1.79E+01	2.95E+01	4.09E+01	4.92E+01	5.73E+01	1.08E+02
NE 22	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02
NA 22	5.42E-08	2.63E-10	4.84E-12	8.92E-14	2.42E-25	6.55E-37	0.0	0.0	0.0	0.0	0.0
S 36	1.97E-04	2.76E-04	3.35E-04	3.94E-04	7.88E-04	1.18E-03	1.97E-03	2.76E-03	3.35E-03	3.94E-03	7.87E-03
CL 35	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06
CL 36	9.01E+01	9.01E+01	9.01E+01	9.01E+01	9.01E+01	9.01E+01	9.00E+01	9.00E+01	8.99E+01	8.99E+01	8.97E+01
AR 36	1.02E-02	1.42E-02	1.73E-02	2.03E-02	4.07E-02	6.10E-02	1.02E-01	1.42E-01	1.73E-01	2.03E-01	4.06E-01
AR 39	6.90E-04	6.56E-04	6.31E-04	6.07E-04	4.69E-04	3.63E-04	2.17E-04	1.29E-04	8.79E-05	5.97E-05	4.54E-06
K 39	9.49E-05	1.30E-04	1.54E-04	1.78E-04	3.16E-04	4.23E-04	5.69E-04	6.56E-04	6.97E-04	7.25E-04	7.81E-04
K 41	1.61E-02	2.25E-02	2.74E-02	3.22E-02	6.44E-02	9.65E-02	1.61E-01	2.25E-01	2.73E-01	3.21E-01	6.39E-01
CA 41	3.76E+01	3.76E+01	3.76E+01	3.76E+01	3.76E+01	3.76E+01	3.75E+01	3.74E+01	3.74E+01	3.73E+01	3.70E+01
CA 45	5.69E-38	1.84E-51	1.40E-61	1.07E-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SC 45	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04
TI 46	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05
TI 49	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05
V 49	5.02E-22	1.09E-28	1.10E-33	1.11E-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V 51	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05
CR 54	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01
MN 54	2.34E-18	2.16E-25	1.14E-30	6.05E-36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MN 55	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02
FE 55	4.76E-04	2.30E-06	4.23E-08	7.76E-10	2.06E-21	5.48E-33	0.0	0.0	0.0	0.0	0.0
FE 58	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03
CO 59	6.95E+01	9.73E+01	1.18E+02	1.39E+02	2.78E+02	4.17E+02	6.94E+02	9.71E+02	1.18E+03	1.38E+03	2.76E+03
CO 60	5.33E+00	3.84E-01	5.35E-02	7.44E-03	1.45E-08	2.81E-14	1.06E-25	4.03E-37	1.09E-45	2.96E-54	0.0
NI 59	1.61E+05	1.60E+05	1.60E+05	1.60E+05	1.60E+05	1.60E+05	1.60E+05	1.60E+05	1.59E+05	1.59E+05	1.58E+05
NI 60	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03
NI 63	1.14E+04	9.83E+03	8.78E+03	7.84E+03	3.69E+03	1.74E+03	3.85E+02	8.54E+01	2.76E+01	8.91E+00	4.77E-03
CU 63	5.23E+03	6.82E+03	7.87E+03	8.81E+03	1.30E+04	1.49E+04	1.63E+04	1.66E+04	1.66E+04	1.66E+04	1.67E+04
CU 65	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02
ZN 65	2.47E-24	2.39E-33	4.13E-40	7.16E-47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NB 93	1.07E-05	1.49E-05	1.81E-05	2.12E-05	4.20E-05	6.24E-05	1.02E-04	1.40E-04	1.68E-04	1.94E-04	3.54E-04
MO 93	1.07E-03	1.07E-03	1.06E-03	1.06E-03	1.04E-03	1.02E-03	9.80E-04	9.42E-04	9.15E-04	8.88E-04	7.28E-04
TA182	2.86E-50	2.18E-69	1.00E-83	4.60E-98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W 182	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02
TOTAL	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
BE 10	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03
C 14	8.25E+13	8.23E+13	8.22E+13	8.20E+13	8.11E+13	8.01E+13	7.82E+13	7.63E+13	7.49E+13	7.36E+13	6.52E+13
NA 22	1.25E+07	6.08E+04	1.12E+03	2.06E+01	5.59E-11	1.52E-22	0.0	0.0	0.0	0.0	0.0
CL 36	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11	1.10E+11
AR 39	8.71E+08	8.27E+08	7.96E+08	7.65E+08	5.92E+08	4.57E+08	2.73E+08	1.63E+08	1.11E+08	7.53E+07	5.73E+06
CA 41	1.50E+11	1.50E+11	1.50E+11	1.50E+11	1.50E+11	1.50E+11	1.49E+11	1.49E+11	1.49E+11	1.49E+11	1.48E+11
CA 45	3.75E-23	1.21E-36	9.23E-47	7.03E-57	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V 49	1.50E-07	3.26E-14	3.29E-19	3.31E-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MN 54	6.72E-04	6.19E-11	3.28E-16	1.73E-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FE 55	4.40E+10	2.13E+08	3.91E+06	7.18E+04	1.91E-07	5.07E-19	0.0	0.0	0.0	0.0	0.0
CO 60	2.23E+14	1.61E+13	2.24E+12	3.11E+11	6.06E+05	1.18E+00	4.46E-12	1.69E-23	4.57E-32	1.24E-40	0.0
NI 59	4.50E+14	4.50E+14	4.50E+14	4.50E+14	4.49E+14	4.49E+14	4.48E+14	4.47E+14	4.47E+14	4.46E+14	4.42E+14
NI 63	2.61E+16	2.24E+16	2.00E+16	1.79E+16	8.43E+15	3.97E+15	8.80E+14	1.95E+14	6.30E+13	2.04E+13	1.09E+10
ZN 65	7.54E-10	7.28E-19	1.26E-25	2.18E-32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 93	4.36E+07	4.34E+07	4.33E+07	4.32E+07	4.23E+07	4.15E+07	3.99E+07	3.83E+07	3.72E+07	3.61E+07	2.96E+07
TA182	6.60E-36	5.03E-55	2.31E-69	1.06E-83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	2.68E+16	2.30E+16	2.06E+16	1.84E+16	8.96E+15	4.50E+15	1.41E+15	7.19E+14	5.85E+14	5.40E+14	5.08E+14

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
BE 10	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11	3.57E-11
C 14	6.55E-01	6.53E-01	6.52E-01	6.51E-01	6.43E-01	6.35E-01	6.20E-01	6.05E-01	5.94E-01	5.83E-01	5.17E-01
NA 22	4.79E-06	2.33E-08	4.28E-10	7.88E-12	2.14E-23	5.79E-35	0.0	0.0	0.0	0.0	0.0
CL 36	4.35E-03	4.35E-03	4.35E-03	4.35E-03	4.35E-03	4.35E-03	4.34E-03	4.34E-03	4.34E-03	4.34E-03	4.33E-03
AR 39	7.88E-05	7.49E-05	7.20E-05	6.93E-05	5.36E-05	4.14E-05	2.47E-05	1.48E-05	1.00E-05	6.82E-06	5.19E-07
CA 41	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.02E-02	1.02E-02	1.02E-02	1.02E-02	1.02E-02	1.02E-02	1.01E-02
CA 45	4.64E-37	1.50E-50	1.14E-60	8.70E-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V 49	1.03E-22	2.25E-29	2.26E-34	2.28E-39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MN 54	9.04E-17	8.33E-24	4.41E-29	2.33E-34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FE 55	1.64E-03	7.92E-06	1.45E-07	2.67E-09	7.09E-21	1.88E-32	0.0	0.0	0.0	0.0	0.0
CO 60	9.30E+01	6.70E+00	9.33E-01	1.30E-01	2.52E-07	4.91E-13	1.86E-24	7.02E-36	1.91E-44	5.17E-53	0.0
NI 59	7.74E+01	7.74E+01	7.74E+01	7.74E+01	7.73E+01	7.73E+01	7.71E+01	7.70E+01	7.69E+01	7.68E+01	7.61E+01
NI 63	2.80E+02	2.41E+02	2.15E+02	1.92E+02	9.05E+01	4.26E+01	9.44E+00	2.09E+00	6.76E-01	2.18E-01	1.17E-04
ZN 65	7.14E-23	6.89E-32	1.19E-38	2.07E-45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 93	1.10E-07	1.10E-07	1.10E-07	1.09E-07	1.07E-07	1.05E-07	1.01E-07	9.70E-08	9.42E-08	9.14E-08	7.50E-08
TA182	1.59E-48	1.21E-67	5.56E-82	2.55E-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	4.51E+02	3.26E+02	2.94E+02	2.70E+02	1.68E+02	1.21E+02	8.72E+01	7.97E+01	7.82E+01	7.76E+01	7.67E+01

NUCLIDE CONCENTRATIONS, GRAM ATOMS
 BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
HE 4	5.21E+01	7.11E+01	8.44E+01	9.70E+01	1.67E+02	2.20E+02	3.02E+02	3.68E+02	4.10E+02	4.49E+02	6.48E+02
TL207	1.17E-11	1.17E-11	1.18E-11	1.18E-11	1.21E-11	1.23E-11	1.29E-11	1.34E-11	1.38E-11	1.42E-11	1.68E-11
TL208	3.65E-11	3.65E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11
TL209	2.25E-18	3.62E-18	4.87E-18	6.33E-18	2.29E-17	5.48E-17	1.82E-16	4.16E-16	6.73E-16	1.01E-15	5.38E-15
PB206	2.91E-04	4.28E-04	5.34E-04	6.40E-04	1.35E-03	2.05E-03	3.41E-03	4.73E-03	6.69E-03	6.64E-03	1.30E-02
PB207	4.47E-05	6.27E-05	7.62E-05	8.98E-05	1.81E-04	2.75E-04	4.68E-04	6.69E-04	8.25E-04	9.86E-04	2.17E-03
PB208	1.61E-03	1.87E-03	2.05E-03	2.24E-03	3.44E-03	4.65E-03	7.06E-03	9.47E-03	1.13E-02	1.31E-02	2.51E-02
PB209	9.19E-15	1.48E-14	1.99E-14	2.59E-14	9.35E-14	2.24E-13	7.45E-13	1.70E-12	2.75E-12	4.12E-12	2.20E-11
PB210	2.14E-04	2.23E-04	2.26E-04	2.28E-04	2.27E-04	2.22E-04	2.14E-04	2.08E-04	2.05E-04	2.02E-04	2.09E-04
PB211	8.88E-11	8.92E-11	8.95E-11	8.97E-11	9.16E-11	9.36E-11	9.76E-11	1.02E-10	1.05E-10	1.08E-10	1.28E-10
PB212	2.12E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08
PB214	5.33E-10	5.30E-10	5.28E-10	5.27E-10	5.15E-10	5.04E-10	4.87E-10	4.74E-10	4.67E-10	4.62E-10	4.71E-10
BI209	3.76E-10	8.13E-10	1.29E-09	1.92E-09	1.21E-08	4.02E-08	2.07E-07	6.42E-07	1.25E-06	2.19E-06	2.38E-05
BI210	1.32E-07	1.37E-07	1.39E-07	1.40E-07	1.39E-07	1.37E-07	1.32E-07	1.28E-07	1.26E-07	1.25E-07	1.29E-07
BI211	5.24E-12	5.26E-12	5.28E-12	5.30E-12	5.40E-12	5.52E-12	5.76E-12	5.99E-12	6.17E-12	6.34E-12	7.55E-12
BI212	2.01E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09
BI213	2.12E-15	3.41E-15	4.59E-15	5.97E-15	2.16E-14	5.17E-14	1.72E-13	3.92E-13	6.35E-13	9.49E-13	5.08E-12
BI214	3.96E-10	3.94E-10	3.92E-10	3.91E-10	3.82E-10	3.74E-10	3.61E-10	3.52E-10	3.46E-10	3.43E-10	3.55E-10
PO210	3.64E-06	3.79E-06	3.84E-06	3.87E-06	3.85E-06	3.77E-06	3.64E-06	3.54E-06	3.48E-06	3.44E-06	3.55E-06
PO211	6.89E-17	6.92E-17	6.94E-17	6.96E-17	7.11E-17	7.26E-17	7.57E-17	7.88E-17	8.11E-17	8.34E-17	9.92E-17
PO212	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19
PO213	3.18E-24	5.12E-24	6.89E-24	8.95E-24	3.23E-23	7.75E-23	2.58E-22	5.88E-22	9.52E-22	1.42E-21	7.61E-21
PO214	5.44E-17	5.42E-17	5.40E-17	5.38E-17	5.26E-17	5.15E-17	4.97E-17	4.84E-17	4.77E-17	4.72E-17	4.88E-17
PO215	7.30E-17	7.33E-17	7.35E-17	7.38E-17	7.53E-17	7.69E-17	8.02E-17	8.35E-17	8.59E-17	8.84E-17	1.05E-16
PO216	8.28E-14	8.27E-14	8.27E-14	8.27E-14	8.27E-14	8.27E-14	8.26E-14	8.26E-14	8.26E-14	8.26E-14	8.26E-14
PO218	6.06E-11	6.03E-11	6.01E-11	5.99E-11	5.86E-11	5.74E-11	5.54E-11	5.39E-11	5.31E-11	5.26E-11	5.43E-11
AT217	2.50E-20	4.02E-20	5.42E-20	7.04E-20	2.54E-19	6.10E-19	2.03E-18	4.63E-18	7.48E-18	1.12E-17	5.99E-17
RN219	1.62E-13	1.63E-13	1.64E-13	1.64E-13	1.67E-13	1.71E-13	1.78E-13	1.86E-13	1.91E-13	1.97E-13	2.34E-13
RN220	3.07E-11	3.07E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11
RN222	1.09E-07	1.09E-07	1.09E-07	1.08E-07	1.06E-07	1.04E-07	1.00E-07	9.73E-08	9.59E-08	9.49E-08	9.81E-08
FR221	2.23E-16	3.59E-16	4.83E-16	6.28E-16	2.27E-15	5.44E-15	1.81E-14	4.13E-14	6.67E-14	9.98E-14	5.34E-13
FR223	7.50E-13	7.53E-13	7.55E-13	7.58E-13	7.74E-13	7.91E-13	8.25E-13	8.59E-13	8.84E-13	9.09E-13	1.08E-12
RA223	4.05E-08	4.07E-08	4.08E-08	4.09E-08	4.18E-08	4.27E-08	4.45E-08	4.63E-08	4.77E-08	4.90E-08	5.83E-08
RA224	1.75E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07
RA225	9.89E-13	1.59E-12	2.14E-12	2.79E-12	1.01E-11	2.41E-11	8.02E-11	1.83E-10	2.96E-10	4.43E-10	2.37E-09
RA226	1.67E-02	1.67E-02	1.66E-02	1.65E-02	1.62E-02	1.58E-02	1.53E-02	1.49E-02	1.47E-02	1.45E-02	1.50E-02
RA228	1.17E-04	1.17E-04	1.17E-04	1.16E-04	1.17E-04	1.17E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04
AC225	6.68E-13	1.08E-12	1.45E-12	1.88E-12	6.80E-12	1.63E-11	5.42E-11	1.24E-10	2.00E-10	2.99E-10	1.60E-09
AC227	2.81E-05	2.83E-05	2.83E-05	2.84E-05	2.91E-05	2.97E-05	3.10E-05	3.22E-05	3.32E-05	3.41E-05	4.06E-05
AC228	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08
TH227	6.54E-08	6.56E-08	6.59E-08	6.61E-08	6.74E-08	6.89E-08	7.18E-08	7.48E-08	7.70E-08	7.92E-08	9.41E-08
TH228	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05
TH229	1.79E-07	2.89E-07	3.88E-07	5.05E-07	1.82E-06	4.37E-06	1.45E-05	3.32E-05	5.37E-05	8.02E-05	4.29E-04
TH230	3.59E-01	3.62E-01	3.65E-01	3.67E-01	3.88E-01	4.14E-01	4.69E-01	5.26E-01	5.69E-01	6.12E-01	8.98E-01
TH231	4.40E-08	4.40E-08	4.40E-08	4.40E-08	4.41E-08	4.41E-08	4.42E-08	4.42E-08	4.43E-08	4.43E-08	4.46E-08
TH232	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05
TH234	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05
PA231	4.26E-02	4.28E-02	4.29E-02	4.31E-02	4.40E-02	4.50E-02	4.69E-02	4.88E-02	5.02E-02	5.16E-02	6.10E-02
PA233	1.44E-06	1.67E-06	1.84E-06	2.01E-06	3.07E-06	3.96E-06	5.38E-06	6.41E-06	6.99E-06	7.45E-06	8.79E-06

PA234M	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09
PA234	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10
U 232	3.30E-07	2.73E-07	2.36E-07	2.04E-07	7.80E-08	2.98E-08	4.34E-09	6.34E-10	1.50E-10	3.53E-11	2.33E-15	
U 233	1.11E-03	1.41E-03	1.65E-03	1.92E-03	4.31E-03	7.62E-03	1.64E-02	2.75E-02	3.69E-02	4.71E-02	1.24E-01	
U 234	4.50E+01	5.35E+01	5.90E+01	6.39E+01	8.53E+01	9.50E+01	1.01E+02	1.03E+02	1.03E+02	1.03E+02	1.03E+02	
U 235	1.06E+04	1.06E+04	1.06E+04	1.06E+04	1.07E+04	1.07E+04	1.07E+04	1.07E+04	1.07E+04	1.07E+04	1.07E+04	
U 236	7.67E+02	7.69E+02	7.70E+02	7.72E+02	7.83E+02	7.94E+02	8.15E+02	8.36E+02	8.51E+02	8.66E+02	8.66E+02	
U 237	5.67E-07	2.17E-07	1.05E-07	5.12E-08	4.18E-10	5.77E-12	2.35E-12	2.31E-12	2.29E-12	2.26E-12	2.08E-12	
U 238	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	
U 240	3.06E-18	3.07E-18	3.08E-18	3.08E-18	3.13E-18	3.17E-18	3.26E-18	3.35E-18	3.42E-18	3.49E-18	3.93E-18	
NP237	4.16E+01	4.83E+01	5.33E+01	5.83E+01	8.87E+01	1.15E+02	1.56E+02	1.86E+02	2.02E+02	2.16E+02	2.54E+02	
NP238	2.97E-13	2.71E-13	2.53E-13	2.36E-13	1.50E-13	9.49E-14	3.81E-14	1.53E-14	7.73E-15	3.90E-15	4.09E-17	
NP239	4.66E-10	4.65E-10	4.64E-10	4.64E-10	4.59E-10	4.55E-10	4.47E-10	4.38E-10	4.32E-10	4.26E-10	3.88E-10	
NP240M	2.68E-20	2.68E-20	2.69E-20	2.70E-20	2.73E-20	2.77E-20	2.85E-20	2.93E-20	2.99E-20	3.05E-20	3.44E-20	
PU236	2.04E-12	1.58E-14	4.13E-16	1.08E-17	2.99E-28	8.31E-39	6.41E-60	4.95E-81	7.24E-97	1.06E-112	0.0	
PU238	5.81E+01	4.96E+01	4.41E+01	3.91E+01	1.78E+01	8.07E+00	1.66E+00	3.43E-01	1.05E-01	3.20E-02	1.19E-05	
PU239	2.36E+03	2.36E+03	2.36E+03	2.36E+03	2.35E+03	2.34E+03	2.33E+03	2.32E+03	2.31E+03	2.30E+03	2.23E+03	
PU240	1.03E+03	1.03E+03	1.03E+03	1.03E+03	1.02E+03	1.01E+03	9.87E+02	9.66E+02	9.51E+02	9.36E+02	8.42E+02	
PU241	1.77E+01	6.75E+00	3.28E+00	1.59E+00	1.30E-02	1.80E-04	7.33E-05	7.21E-05	7.13E-05	7.04E-05	6.48E-05	
PU242	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.29E+02	1.28E+02	1.28E+02	
PU243	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	
PU244	1.57E-07	1.58E-07	1.58E-07	1.58E-07	1.61E-07	1.63E-07	1.68E-07	1.72E-07	1.76E-07	1.79E-07	2.02E-07	
AM241	2.05E+02	2.09E+02	2.08E+02	2.04E+02	1.76E+02	1.50E+02	1.09E+02	7.87E+01	6.19E+01	4.87E+01	9.80E+00	
AM242M	1.56E-06	1.42E-06	1.33E-06	1.24E-06	7.85E-07	4.98E-07	2.00E-07	8.03E-08	4.05E-08	2.05E-08	2.14E-10	
AM242	1.86E-11	1.70E-11	1.59E-11	1.48E-11	9.39E-12	5.95E-12	2.39E-12	9.61E-13	4.85E-13	2.45E-13	2.56E-15	
AM243	5.33E-04	5.32E-04	5.31E-04	5.31E-04	5.26E-04	5.21E-04	5.11E-04	5.02E-04	4.95E-04	4.88E-04	4.44E-04	
CM242	3.76E-09	3.43E-09	3.21E-09	3.00E-09	1.90E-09	1.20E-09	4.84E-10	1.94E-10	9.81E-11	4.95E-11	5.18E-13	
CM243	4.47E-07	2.75E-07	1.91E-07	1.33E-07	1.17E-08	1.02E-09	7.92E-12	6.12E-14	1.59E-15	4.16E-17	1.14E-27	
CM244	4.45E-01	2.07E-01	1.16E-01	6.56E-02	1.43E-03	3.11E-05	1.48E-08	7.01E-12	2.25E-14	7.25E-17	1.74E-33	
CM245	4.48E-02	4.47E-02	4.47E-02	4.46E-02	4.42E-02	4.39E-02	4.32E-02	4.25E-02	4.20E-02	4.15E-02	3.82E-02	
CM246	9.23E-03	9.20E-03	9.18E-03	9.16E-03	9.03E-03	8.90E-03	8.64E-03	8.39E-03	8.21E-03	8.03E-03	6.94E-03	
CM247	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	
CM248	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	1.23E-05	
TOTAL	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	

NUCLIDE CONCENTRATIONS, GRAMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
HE 4	2.09E+02	2.84E+02	3.38E+02	3.88E+02	6.67E+02	8.80E+02	1.21E+03	1.47E+03	1.64E+03	1.79E+03	2.59E+03
TL207	2.42E-09	2.43E-09	2.44E-09	2.45E-09	2.50E-09	2.55E-09	2.66E-09	2.77E-09	2.85E-09	2.93E-09	3.49E-09
TL208	7.60E-09	7.69E-09	7.68E-09	7.68E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09
TL209	4.69E-16	7.56E-16	1.02E-15	1.32E-15	4.78E-15	1.15E-14	3.81E-14	8.69E-14	1.41E-13	2.10E-13	1.12E-12
PB206	6.00E-02	8.82E-02	1.10E-01	1.32E-01	2.79E-01	4.23E-01	7.03E-01	9.74E-01	1.17E+00	1.37E+00	2.68E+00
PB207	9.25E-03	1.30E-02	1.58E-02	1.86E-02	3.75E-02	5.69E-02	9.69E-02	1.39E-01	1.71E-01	2.04E-01	4.50E-01
PB208	3.36E-01	3.90E-01	4.27E-01	4.65E-01	7.16E-01	9.66E-01	1.47E+00	1.97E+00	2.34E+00	2.72E+00	5.23E+00
PB209	1.92E-12	3.09E-12	4.16E-12	5.41E-12	1.95E-11	4.69E-11	1.56E-10	3.56E-10	5.75E-10	8.60E-10	4.60E-09
PB210	4.50E-02	4.68E-02	4.75E-02	4.78E-02	4.76E-02	4.66E-02	4.50E-02	4.37E-02	4.30E-02	4.25E-02	4.39E-02
PB211	1.87E-08	1.88E-08	1.89E-08	1.89E-08	1.93E-08	1.98E-08	2.06E-08	2.14E-08	2.21E-08	2.27E-08	2.70E-08
PB212	4.48E-06	4.48E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06
PB214	1.14E-07	1.13E-07	1.13E-07	1.13E-07	1.10E-07	1.08E-07	1.04E-07	1.01E-07	9.99E-08	9.88E-08	1.02E-07
BI209	7.85E-08	1.70E-07	2.70E-07	4.01E-07	2.53E-06	8.40E-06	4.32E-05	1.34E-04	2.61E-04	4.58E-04	4.98E-03
BI210	2.77E-05	2.88E-05	2.92E-05	2.94E-05	2.93E-05	2.87E-05	2.77E-05	2.69E-05	2.65E-05	2.62E-05	2.70E-05
BI211	1.11E-09	1.11E-09	1.11E-09	1.12E-09	1.14E-09	1.17E-09	1.21E-09	1.26E-09	1.30E-09	1.34E-09	1.59E-09
BI212	4.25E-07	4.25E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07
BI213	4.51E-13	7.27E-13	9.78E-13	1.27E-12	4.59E-12	1.10E-11	3.66E-11	8.36E-11	1.35E-10	2.02E-10	1.08E-09
BI214	8.47E-08	8.43E-08	8.40E-08	8.37E-08	8.18E-08	8.01E-08	7.73E-08	7.53E-08	7.41E-08	7.34E-08	7.59E-08
PO210	7.65E-04	7.95E-04	8.07E-04	8.13E-04	8.09E-04	7.93E-04	7.64E-04	7.43E-04	7.31E-04	7.23E-04	7.46E-04
PO211	1.45E-14	1.46E-14	1.46E-14	1.47E-14	1.50E-14	1.53E-14	1.60E-14	1.66E-14	1.71E-14	1.76E-14	2.09E-14
PO212	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17
PO213	6.77E-22	1.09E-21	1.47E-21	1.91E-21	6.88E-21	1.65E-20	5.49E-20	1.25E-19	2.03E-19	3.03E-19	1.62E-18
PO214	1.17E-14	1.16E-14	1.16E-14	1.15E-14	1.13E-14	1.10E-14	1.06E-14	1.04E-14	1.02E-14	1.01E-14	1.04E-14
PO215	1.57E-14	1.58E-14	1.58E-14	1.59E-14	1.62E-14	1.65E-14	1.72E-14	1.79E-14	1.85E-14	1.90E-14	2.26E-14
PO216	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11
PO218	1.32E-08	1.32E-08	1.31E-08	1.31E-08	1.28E-08	1.25E-08	1.21E-08	1.17E-08	1.16E-08	1.15E-08	1.18E-08
AT217	5.42E-18	8.73E-18	1.18E-17	1.63E-17	5.52E-17	1.32E-16	4.40E-16	1.00E-15	1.62E-15	2.43E-15	1.30E-14
RN219	3.56E-11	3.57E-11	3.58E-11	3.59E-11	3.67E-11	3.75E-11	3.91E-11	4.07E-11	4.19E-11	4.31E-11	5.12E-11
RN220	6.75E-09	6.75E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09
RN222	2.43E-05	2.42E-05	2.41E-05	2.40E-05	2.35E-05	2.30E-05	2.22E-05	2.16E-05	2.13E-05	2.11E-05	2.18E-05
FR221	4.92E-14	7.93E-14	1.07E-13	1.39E-13	5.01E-13	1.20E-12	3.99E-12	9.12E-12	1.47E-11	2.20E-11	1.18E-10
FR223	1.67E-10	1.68E-10	1.68E-10	1.69E-10	1.73E-10	1.76E-10	1.84E-10	1.92E-10	1.97E-10	2.03E-10	2.41E-10
RA223	9.03E-06	9.07E-06	9.10E-06	9.13E-06	9.32E-06	9.52E-06	9.93E-06	1.03E-05	1.06E-05	1.09E-05	1.30E-05
RA224	3.91E-05	3.91E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05
RA225	2.23E-10	3.59E-10	4.82E-10	6.27E-10	2.26E-09	6.43E-09	1.81E-08	4.12E-08	6.67E-08	9.97E-08	5.33E-07
RA226	3.78E+00	3.76E+00	3.75E+00	3.74E+00	3.65E+00	3.58E+00	3.45E+00	3.36E+00	3.31E+00	3.28E+00	3.39E+00
RA228	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02
AC225	1.50E-10	2.42E-10	3.26E-10	4.24E-10	1.53E-09	3.67E-09	1.22E-08	2.78E-08	4.50E-08	6.73E-08	3.60E-07
AC227	6.39E-03	6.41E-03	6.43E-03	6.45E-03	6.60E-03	6.74E-03	7.03E-03	7.31E-03	7.53E-03	7.74E-03	9.21E-03
AC228	2.78E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06
TH227	1.48E-05	1.49E-05	1.49E-05	1.50E-05	1.53E-05	1.56E-05	1.63E-05	1.70E-05	1.75E-05	1.80E-05	2.14E-05
TH228	7.60E-03	7.59E-03	7.59E-03	7.59E-03	7.58E-03	7.58E-03	7.58E-03	7.58E-03	7.58E-03	7.58E-03	7.58E-03
TH229	4.10E-05	6.61E-05	8.89E-05	1.16E-04	4.17E-04	1.00E-03	3.33E-03	7.60E-03	1.23E-02	1.84E-02	9.83E-02
TH230	8.27E+01	8.33E+01	8.38E+01	8.44E+01	8.93E+01	9.51E+01	1.08E+02	1.21E+02	1.31E+02	1.41E+02	2.06E+02
TH231	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.03E-05
TH232	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07
TH234	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03
PA231	9.84E+00	9.88E+00	9.92E+00	9.95E+00	1.02E+01	1.04E+01	1.08E+01	1.13E+01	1.16E+01	1.19E+01	1.41E+01
PA233	3.35E-04	3.89E-04	4.29E-04	4.69E-04	7.14E-04	9.24E-04	1.25E-03	1.49E-03	1.63E-03	1.74E-03	2.05E-03

PA234M	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07
PA234	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07
U 232	7.66E-05	6.32E-05	5.47E-05	4.74E-05	1.81E-05	6.91E-06	1.01E-06	1.47E-07	3.47E-08	8.19E-09	5.41E-13	2.90E+01
U 233	2.60E-01	3.27E-01	3.85E-01	4.48E-01	1.01E+00	1.77E+00	3.83E+00	6.41E+00	8.61E+00	1.10E+01	2.90E+01	2.90E+01
U 234	1.05E+04	1.25E+04	1.38E+04	1.50E+04	2.00E+04	2.22E+04	2.37E+04	2.41E+04	2.41E+04	2.41E+04	2.41E+04	2.41E+04
U 235	2.50E+06	2.50E+06	2.50E+06	2.50E+06	2.50E+06	2.51E+06	2.51E+06	2.51E+06	2.51E+06	2.52E+06	2.53E+06	2.27E+05
U 236	1.81E+05	1.81E+05	1.82E+05	1.82E+05	1.85E+05	1.87E+05	1.92E+05	1.97E+05	2.01E+05	2.04E+05	2.04E+05	2.27E+05
U 237	1.34E-04	5.14E-05	2.50E-05	1.21E-05	9.91E-08	1.37E-09	5.57E-10	5.48E-10	5.42E-10	5.35E-10	4.93E-10	4.93E-10
U 238	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08
U 240	7.34E-16	7.36E-16	7.38E-16	7.40E-16	7.50E-16	7.61E-16	7.83E-16	8.04E-16	8.20E-16	8.36E-16	9.44E-16	9.44E-16
NP237	9.86E+03	1.14E+04	1.26E+04	1.38E+04	2.10E+04	2.72E+04	3.69E+04	4.40E+04	4.80E+04	5.11E+04	6.03E+04	6.03E+04
NP238	7.06E-11	6.44E-11	6.02E-11	5.62E-11	3.56E-11	2.26E-11	9.07E-12	3.65E-12	1.84E-12	9.28E-13	9.72E-15	9.72E-15
NP239	1.11E-07	1.11E-07	1.11E-07	1.11E-07	1.10E-07	1.09E-07	1.07E-07	1.05E-07	1.03E-07	1.02E-07	9.27E-08	9.27E-08
NP240M	6.42E-18	6.44E-18	6.46E-18	6.47E-18	6.56E-18	6.66E-18	6.85E-18	7.03E-18	7.18E-18	7.32E-18	8.25E-18	8.25E-18
PU236	4.83E-10	3.73E-12	9.75E-14	2.54E-15	7.06E-26	1.96E-36	1.51E-57	1.17E-78	1.71E-94	2.50E-110	0.0	0.0
PU238	1.38E+04	1.18E+04	1.05E+04	9.32E+03	4.23E+03	1.92E+03	3.96E+02	8.15E+01	2.49E+01	7.63E+00	2.83E-03	2.83E-03
PU239	5.64E+05	5.64E+05	5.64E+05	5.64E+05	5.62E+05	5.60E+05	5.57E+05	5.54E+05	5.52E+05	5.49E+05	5.34E+05	5.34E+05
PU240	2.48E+05	2.48E+05	2.48E+05	2.47E+05	2.45E+05	2.42E+05	2.37E+05	2.32E+05	2.28E+05	2.25E+05	2.02E+05	2.02E+05
PU241	4.26E+03	1.63E+03	7.90E+02	3.84E+02	3.14E+00	4.33E-02	1.77E-02	1.74E-02	1.72E-02	1.70E-02	1.56E-02	1.56E-02
PU242	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.10E+04	3.10E+04
PU243	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12
PU244	3.84E-05	3.85E-05	3.86E-05	3.87E-05	3.92E-05	3.98E-05	4.09E-05	4.20E-05	4.29E-05	4.37E-05	4.93E-05	4.93E-05
AM241	4.94E+04	5.04E+04	6.01E+04	4.93E+04	4.23E+04	3.60E+04	2.62E+04	1.90E+04	1.49E+04	1.17E+04	2.36E+03	2.36E+03
AM242M	3.76E-04	3.44E-04	3.21E-04	3.00E-04	1.90E-04	1.20E-04	4.84E-05	1.94E-05	9.81E-06	4.95E-06	5.19E-08	5.19E-08
AM242	4.50E-09	4.11E-09	3.84E-09	3.58E-09	2.27E-09	1.44E-09	6.79E-10	2.33E-10	1.17E-10	5.92E-11	6.20E-13	6.20E-13
AM243	1.30E-01	1.29E-01	1.29E-01	1.29E-01	1.28E-01	1.27E-01	1.24E-01	1.22E-01	1.20E-01	1.18E-01	1.08E-01	1.08E-01
CM242	9.10E-07	8.31E-07	7.76E-07	7.25E-07	4.59E-07	2.91E-07	1.17E-07	4.70E-08	2.37E-08	1.20E-08	1.25E-10	1.25E-10
CM243	1.09E-04	6.68E-05	4.64E-05	3.22E-05	2.83E-06	2.49E-07	1.92E-09	1.49E-11	3.87E-13	1.01E-14	2.78E-25	2.78E-25
CM244	1.08E+02	5.05E+01	2.84E+01	1.60E+01	3.49E-01	7.60E-03	3.61E-06	1.71E-09	5.50E-12	1.77E-14	4.26E-31	4.26E-31
CM245	1.10E+01	1.10E+01	1.09E+01	1.09E+01	1.08E+01	1.08E+01	1.06E+01	1.04E+01	1.03E+01	1.02E+01	9.36E+00	9.36E+00
CM246	2.27E+00	2.26E+00	2.26E+00	2.25E+00	2.22E+00	2.19E+00	2.13E+00	2.06E+00	2.02E+00	1.98E+00	1.71E+00	1.71E+00
CM247	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02
CM248	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.04E-03	3.04E-03
TOTAL	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08

ACTINIDES

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
TL207	1.71E+10	1.71E+10	1.72E+10	1.73E+10	1.76E+10	1.80E+10	1.88E+10	1.95E+10	2.01E+10	2.07E+10	2.46E+10
TL208	8.28E+10	8.27E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10
TL209	7.11E+03	1.14E+04	1.54E+04	2.00E+04	7.23E+04	1.73E+05	5.76E+05	1.32E+06	2.13E+06	3.18E+06	1.70E+07
PB209	3.23E+05	5.20E+05	7.00E+05	9.10E+05	3.29E+06	7.88E+06	2.62E+07	5.98E+07	9.67E+07	1.45E+08	7.74E+08
PB210	1.27E+11	1.32E+11	1.34E+11	1.35E+11	1.35E+11	1.32E+11	1.27E+11	1.23E+11	1.22E+11	1.20E+11	1.24E+11
PB211	1.71E+10	1.72E+10	1.72E+10	1.73E+10	1.77E+10	1.80E+10	1.88E+10	1.96E+10	2.02E+10	2.07E+10	2.47E+10
PB212	2.31E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
PB214	1.38E+11	1.38E+11	1.37E+11	1.37E+11	1.34E+11	1.31E+11	1.26E+11	1.23E+11	1.21E+11	1.20E+11	1.24E+11
BI210	1.27E+11	1.32E+11	1.34E+11	1.35E+11	1.35E+11	1.32E+11	1.27E+11	1.23E+11	1.22E+11	1.20E+11	1.24E+11
BI211	1.71E+10	1.72E+10	1.72E+10	1.73E+10	1.77E+10	1.80E+10	1.88E+10	1.96E+10	2.02E+10	2.07E+10	2.47E+10
BI212	2.31E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
BI213	3.23E+05	5.20E+05	7.00E+05	9.10E+05	3.29E+06	7.88E+06	2.62E+07	5.98E+07	9.67E+07	1.45E+08	7.74E+08
BI214	1.38E+11	1.38E+11	1.37E+11	1.37E+11	1.34E+11	1.31E+11	1.26E+11	1.23E+11	1.21E+11	1.20E+11	1.24E+11
PO210	1.27E+11	1.32E+11	1.34E+11	1.35E+11	1.35E+11	1.32E+11	1.27E+11	1.23E+11	1.22E+11	1.20E+11	1.24E+11
PO211	5.14E+07	5.16E+07	5.17E+07	5.19E+07	5.30E+07	5.41E+07	5.64E+07	5.88E+07	6.05E+07	6.22E+07	7.40E+07
PO212	1.48E+11	1.48E+11	1.48E+11	1.48E+11	1.48E+11	1.48E+11	1.47E+11	1.47E+11	1.47E+11	1.47E+11	1.47E+11
PO213	3.16E+05	5.09E+05	6.85E+05	8.90E+05	3.21E+06	7.71E+06	2.56E+07	5.85E+07	9.46E+07	1.41E+08	7.57E+08
PO214	1.38E+11	1.38E+11	1.37E+11	1.37E+11	1.34E+11	1.31E+11	1.26E+11	1.23E+11	1.21E+11	1.20E+11	1.24E+11
PO215	1.71E+10	1.72E+10	1.72E+10	1.73E+10	1.77E+10	1.80E+10	1.88E+10	1.96E+10	2.02E+10	2.07E+10	2.47E+10
PO216	2.31E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
PO218	1.38E+11	1.38E+11	1.37E+11	1.37E+11	1.34E+11	1.31E+11	1.26E+11	1.23E+11	1.21E+11	1.20E+11	1.24E+11
AT217	3.23E+05	5.20E+05	7.00E+05	9.10E+05	3.29E+06	7.88E+06	2.62E+07	5.98E+07	9.67E+07	1.45E+08	7.74E+08
RN219	1.71E+10	1.72E+10	1.72E+10	1.73E+10	1.77E+10	1.80E+10	1.88E+10	1.96E+10	2.02E+10	2.07E+10	2.47E+10
RN220	2.31E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
RN222	1.38E+11	1.38E+11	1.37E+11	1.37E+11	1.34E+11	1.31E+11	1.26E+11	1.23E+11	1.21E+11	1.20E+11	1.24E+11
FR221	3.23E+05	5.20E+05	7.00E+05	9.10E+05	3.29E+06	7.88E+06	2.62E+07	5.98E+07	9.67E+07	1.45E+08	7.74E+08
FR223	2.39E+08	2.40E+08	2.41E+08	2.42E+08	2.47E+08	2.53E+08	2.63E+08	2.74E+08	2.82E+08	2.90E+08	3.45E+08
RA223	1.71E+10	1.72E+10	1.72E+10	1.73E+10	1.77E+10	1.80E+10	1.88E+10	1.96E+10	2.02E+10	2.07E+10	2.47E+10
RA224	2.31E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
RA225	3.23E+05	5.20E+05	7.00E+05	9.10E+05	3.29E+06	7.88E+06	2.62E+07	5.98E+07	9.67E+07	1.45E+08	7.74E+08
RA226	1.38E+11	1.38E+11	1.37E+11	1.37E+11	1.34E+11	1.31E+11	1.26E+11	1.23E+11	1.21E+11	1.20E+11	1.24E+11
RA228	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
AC225	3.23E+05	5.20E+05	7.00E+05	9.10E+05	3.29E+06	7.88E+06	2.62E+07	5.98E+07	9.67E+07	1.45E+08	7.74E+08
AC227	1.71E+10	1.72E+10	1.72E+10	1.73E+10	1.77E+10	1.80E+10	1.88E+10	1.96E+10	2.02E+10	2.07E+10	2.47E+10
AC228	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
TH227	1.69E+10	1.70E+10	1.70E+10	1.71E+10	1.74E+10	1.78E+10	1.86E+10	1.93E+10	1.99E+10	2.04E+10	2.43E+10
TH228	2.31E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
TH229	3.23E+05	5.20E+05	7.00E+05	9.10E+05	3.29E+06	7.88E+06	2.62E+07	5.98E+07	9.67E+07	1.45E+08	7.74E+08
TH230	6.18E+10	6.22E+10	6.26E+10	6.31E+10	6.67E+10	7.11E+10	8.06E+10	9.04E+10	9.78E+10	1.05E+11	1.54E+11
TH231	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.01E+11	2.01E+11	2.01E+11	2.01E+11	2.03E+11
TH232	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
TH234	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12
PA231	1.72E+10	1.73E+10	1.73E+10	1.74E+10	1.78E+10	1.82E+10	1.89E+10	1.97E+10	2.03E+10	2.09E+10	2.46E+10
PA233	2.57E+11	2.99E+11	3.30E+11	3.60E+11	5.49E+11	7.09E+11	9.63E+11	1.15E+12	1.25E+12	1.33E+12	1.57E+12
PA234M	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12
PA234	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09
U 232	6.07E+07	5.01E+07	4.34E+07	3.75E+07	1.43E+07	5.47E+06	7.98E+05	1.16E+05	2.75E+04	6.49E+03	4.28E-01
U 233	9.30E+07	1.17E+08	1.38E+08	1.61E+08	3.60E+08	6.36E+08	1.37E+09	2.30E+09	3.08E+09	3.93E+09	1.04E+10
U 234	2.43E+12	2.89E+12	3.19E+12	3.46E+12	4.62E+12	5.14E+12	5.49E+12	5.56E+12	5.58E+12	5.58E+12	5.59E+12

U 235	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.00E+11	2.01E+11	2.01E+11	2.01E+11	2.01E+11	2.03E+11
U 236	4.33E+11	4.35E+11	4.35E+11	4.36E+11	4.43E+11	4.49E+11	4.61E+11	4.72E+11	4.81E+11	4.89E+11	5.43E+11	
U 237	4.06E+11	1.55E+11	7.54E+10	3.66E+10	2.99E+08	4.13E+06	1.68E+06	1.66E+06	1.64E+06	1.62E+06	1.49E+06	
U 238	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	
U 240	2.52E+01	2.52E+01	2.53E+01	2.54E+01	2.57E+01	2.61E+01	2.68E+01	2.76E+01	2.81E+01	2.87E+01	3.24E+01	
NP237	2.57E+11	2.99E+11	3.30E+11	3.60E+11	5.49E+11	7.09E+11	9.63E+11	1.15E+12	1.25E+12	1.33E+12	1.57E+12	
NP238	6.77E+05	6.18E+05	5.77E+05	5.39E+05	3.42E+05	2.17E+05	8.70E+04	3.50E+04	1.76E+04	8.91E+03	9.33E+01	
NP239	9.56E+08	9.54E+08	9.53E+08	9.51E+08	9.43E+08	9.34E+08	9.16E+08	8.99E+08	8.87E+08	8.74E+08	7.96E+08	
NP240M	2.52E+01	2.52E+01	2.53E+01	2.54E+01	2.57E+01	2.61E+01	2.68E+01	2.76E+01	2.81E+01	2.87E+01	3.24E+01	
PU236	9.49E+03	7.35E+01	1.92E+00	5.00E-02	1.39E-12	3.86E-23	2.98E-44	2.30E-65	3.36E-81	4.92E-97	0.0	
PU238	8.76E+15	7.48E+15	6.65E+15	5.90E+15	2.68E+15	1.22E+15	2.51E+14	5.17E+13	1.58E+13	4.83E+12	1.80E+09	
PU239	1.30E+15	1.30E+15	1.30E+15	1.30E+15	1.29E+15	1.29E+15	1.28E+15	1.27E+15	1.27E+15	1.26E+15	1.23E+15	
PU240	2.09E+15	2.09E+15	2.09E+15	2.08E+15	2.06E+15	2.04E+15	2.00E+15	1.96E+15	1.93E+15	1.90E+15	1.70E+15	
PU241	1.62E+16	6.20E+15	3.01E+15	1.46E+15	1.20E+13	1.65E+11	6.74E+10	6.63E+10	6.55E+10	6.47E+10	5.96E+10	
PU242	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.40E+12	4.39E+12	4.39E+12	
PU243	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	
PU244	2.52E+01	2.53E+01	2.53E+01	2.54E+01	2.57E+01	2.61E+01	2.69E+01	2.76E+01	2.81E+01	2.87E+01	3.24E+01	
AM241	6.28E+15	6.41E+15	6.36E+15	6.26E+15	5.37E+15	4.58E+15	3.32E+15	2.41E+15	1.90E+15	1.49E+15	3.00E+14	
AM242M	1.35E+08	1.24E+08	1.15E+08	1.08E+08	6.83E+07	4.33E+07	1.74E+07	6.99E+06	3.53E+06	1.78E+06	1.87E+04	
AM242	1.35E+08	1.23E+08	1.15E+08	1.07E+08	6.80E+07	4.31E+07	1.73E+07	6.96E+06	3.51E+06	1.77E+06	1.86E+04	
AM243	9.56E+08	9.54E+08	9.53E+08	9.51E+08	9.43E+08	9.34E+08	9.16E+08	8.99E+08	8.87E+08	8.74E+08	7.96E+08	
CM242	1.11E+08	1.02E+08	9.50E+07	8.87E+07	5.62E+07	3.56E+07	1.43E+07	5.75E+06	2.90E+06	1.47E+06	1.54E+04	
CM243	2.08E+08	1.28E+08	8.87E+07	6.16E+07	5.41E+06	4.76E+05	3.68E+03	2.84E+01	7.40E-01	1.93E-02	5.32E-13	
CM244	3.25E+14	1.51E+14	8.51E+13	4.79E+13	1.04E+12	2.28E+10	1.08E+07	5.12E+03	1.65E+01	5.30E-02	1.27E-18	
CM245	6.97E+10	6.96E+10	6.95E+10	6.95E+10	6.89E+10	6.83E+10	6.72E+10	6.61E+10	6.53E+10	6.45E+10	5.95E+10	
CM246	2.58E+10	2.57E+10	2.57E+10	2.56E+10	2.53E+10	2.49E+10	2.42E+10	2.35E+10	2.30E+10	2.25E+10	1.94E+10	
CM247	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	
CM248	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.80E+05	4.79E+05	4.79E+05	4.78E+05	
TOTAL	3.50E+16	2.37E+16	1.95E+16	1.71E+16	1.15E+16	9.16E+15	6.89E+15	5.73E+15	5.14E+15	4.69E+15	3.27E+15	

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
TL207	1.36E-03	1.36E-03	1.36E-03	1.37E-03	1.40E-03	1.43E-03	1.49E-03	1.55E-03	1.60E-03	1.64E-03	1.95E-03
TL208	5.27E-02	5.26E-02	5.26E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02
TL209	3.19E-09	5.14E-09	6.92E-09	8.99E-09	3.25E-08	7.79E-08	2.59E-07	5.91E-07	9.56E-07	1.43E-06	7.64E-06
PB209	1.00E-08	1.62E-08	2.18E-08	2.83E-08	1.02E-07	2.45E-07	8.14E-07	1.86E-06	3.01E-06	4.50E-06	2.41E-05
PB210	7.96E-04	8.28E-04	8.40E-04	8.47E-04	8.43E-04	8.26E-04	7.96E-04	7.73E-04	7.61E-04	7.53E-04	7.77E-04
PB211	1.39E-03	1.39E-03	1.40E-03	1.40E-03	1.43E-03	1.46E-03	1.52E-03	1.59E-03	1.63E-03	1.68E-03	2.00E-03
PB212	1.19E-02	1.19E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02
PB214	1.19E-02	1.19E-02	1.18E-02	1.18E-02	1.15E-02	1.13E-02	1.09E-02	1.06E-02	1.04E-02	1.03E-02	1.07E-02
BI210	7.93E-03	8.24E-03	8.36E-03	8.43E-03	8.38E-03	8.21E-03	7.92E-03	7.69E-03	7.57E-03	7.49E-03	7.73E-03
BI211	1.85E-02	1.85E-02	1.86E-02	1.87E-02	1.90E-02	1.95E-02	2.03E-02	2.11E-02	2.17E-02	2.24E-02	2.66E-02
BI212	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01
BI213	3.67E-08	5.91E-08	7.95E-08	1.03E-07	3.73E-07	8.96E-07	2.98E-06	6.80E-06	1.10E-05	1.64E-05	8.79E-05
BI214	4.79E-02	4.77E-02	4.75E-02	4.74E-02	4.63E-02	4.54E-02	4.38E-02	4.26E-02	4.20E-02	4.15E-02	4.30E-02
PO210	1.10E-01	1.15E-01	1.16E-01	1.17E-01	1.17E-01	1.14E-01	1.10E-01	1.07E-01	1.05E-01	1.04E-01	1.07E-01
PO211	6.25E-05	6.27E-05	6.30E-05	6.32E-05	6.45E-05	6.59E-05	6.87E-05	7.15E-05	7.36E-05	7.57E-05	9.00E-05
PO212	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01
PO213	4.32E-07	6.96E-07	9.36E-07	1.22E-06	4.39E-06	1.05E-05	3.50E-05	8.00E-05	1.29E-04	1.93E-04	1.03E-03
PO214	1.74E-01	1.73E-01	1.72E-01	1.72E-01	1.68E-01	1.64E-01	1.59E-01	1.54E-01	1.52E-01	1.51E-01	1.56E-01
PO215	2.07E-02	2.07E-02	2.08E-02	2.09E-02	2.13E-02	2.18E-02	2.27E-02	2.36E-02	2.43E-02	2.50E-02	2.97E-02
PO216	2.47E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01
PO218	1.36E-01	1.35E-01	1.34E-01	1.34E-01	1.31E-01	1.28E-01	1.24E-01	1.20E-01	1.19E-01	1.17E-01	1.21E-01
AT217	3.73E-07	6.00E-07	8.08E-07	1.05E-06	3.79E-06	9.09E-06	3.02E-05	6.90E-05	1.12E-04	1.67E-04	8.93E-04
RN219	1.91E-02	1.91E-02	1.92E-02	1.93E-02	1.97E-02	2.01E-02	2.09E-02	2.18E-02	2.24E-02	2.31E-02	2.74E-02
RN220	2.37E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01
RN222	1.24E-01	1.23E-01	1.23E-01	1.23E-01	1.20E-01	1.17E-01	1.13E-01	1.10E-01	1.09E-01	1.07E-01	1.11E-01
FR221	3.34E-07	6.38E-07	7.24E-07	9.42E-07	3.40E-06	8.16E-06	2.71E-05	6.19E-05	1.00E-04	1.50E-04	8.01E-04
FR223	1.68E-05	1.69E-05	1.69E-05	1.70E-05	1.74E-05	1.77E-05	1.85E-05	1.92E-05	1.98E-05	2.04E-05	2.42E-05
RA223	1.64E-02	1.65E-02	1.65E-02	1.66E-02	1.69E-02	1.73E-02	1.80E-02	1.88E-02	1.93E-02	1.99E-02	2.36E-02
RA224	2.14E-01	2.14E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01
RA225	6.12E-09	9.86E-09	1.33E-08	1.73E-08	6.23E-08	1.49E-07	4.97E-07	1.13E-06	1.83E-06	2.74E-06	1.47E-05
RA226	1.08E-01	1.07E-01	1.07E-01	1.07E-01	1.04E-01	1.02E-01	9.86E-02	9.60E-02	9.46E-02	9.36E-02	9.68E-02
RA228	4.80E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04
AC225	3.07E-07	4.95E-07	6.66E-07	8.65E-07	3.12E-06	7.50E-06	2.49E-05	5.69E-05	9.20E-05	1.38E-04	7.36E-04
AC227	2.24E-04	2.25E-04	2.25E-04	2.26E-04	2.31E-04	2.36E-04	2.46E-04	2.56E-04	2.64E-04	2.71E-04	3.23E-04
AC228	5.38E-02	5.38E-02	5.37E-02	5.37E-02	5.37E-02	5.37E-02	5.37E-02	5.37E-02	5.37E-02	5.37E-02	5.37E-02
TH227	1.66E-02	1.67E-02	1.67E-02	1.68E-02	1.71E-02	1.75E-02	1.83E-02	1.90E-02	1.96E-02	2.01E-02	2.39E-02
TH228	2.04E-01	2.04E-01	2.04E-01	2.04E-01	2.04E-01	2.03E-01	2.03E-01	2.03E-01	2.03E-01	2.03E-01	2.03E-01
TH229	2.67E-07	4.31E-07	5.80E-07	7.54E-07	2.72E-06	6.53E-06	2.17E-05	4.95E-05	8.01E-05	1.20E-04	6.41E-04
TH230	4.72E-02	4.76E-02	4.79E-02	4.82E-02	5.10E-02	5.43E-02	6.16E-02	6.91E-02	7.48E-02	8.04E-02	1.18E-01
TH231	3.04E-03	3.04E-03	3.04E-03	3.04E-03	3.04E-03	3.04E-03	3.05E-03	3.05E-03	3.05E-03	3.05E-03	3.07E-03
TH232	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01
TH234	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02
PA231	1.42E-02	1.43E-02	1.43E-02	1.43E-02	1.47E-02	1.50E-02	1.56E-02	1.63E-02	1.67E-02	1.72E-02	2.03E-02
PA233	1.58E-02	1.83E-02	2.02E-02	2.21E-02	3.37E-02	4.35E-02	5.91E-02	7.04E-02	7.68E-02	8.18E-02	9.65E-02
PA234M	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01
PA234	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03
U 232	5.27E-05	4.34E-05	3.76E-05	3.25E-05	1.24E-05	4.75E-06	6.93E-07	1.01E-07	2.38E-08	5.63E-09	3.72E-13
U 233	7.32E-05	9.23E-05	1.08E-04	1.26E-04	2.83E-04	5.00E-04	1.08E-03	1.81E-03	2.42E-03	3.09E-03	8.17E-03
U 234	1.89E+00	2.25E+00	2.48E+00	2.69E+00	3.59E+00	4.00E+00	4.27E+00	4.33E+00	4.34E+00	4.34E+00	4.35E+00

U 235	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.51E-01	1.51E-01	1.51E-01	1.52E-01
U 236	3.17E-01	3.18E-01	3.19E-01	3.19E-01	3.24E-01	3.28E-01	3.37E-01	3.46E-01	3.52E-01	3.58E-01	3.58E-01	3.97E-01
U 237	2.08E-02	7.94E-03	3.86E-03	1.87E-03	1.53E-05	2.11E-07	8.61E-08	8.47E-08	8.37E-08	8.27E-08	7.62E-08	7.62E-08
U 238	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00
U 240	5.58E-13	5.60E-13	5.61E-13	5.62E-13	5.70E-13	5.79E-13	5.95E-13	6.11E-13	6.23E-13	6.36E-13	7.17E-13	7.17E-13
NP237	2.04E-01	2.37E-01	2.62E-01	2.86E-01	4.36E-01	5.63E-01	7.65E-01	9.11E-01	9.94E-01	1.06E+00	1.25E+00	1.25E+00
NP238	8.76E-08	8.00E-08	7.47E-08	6.98E-08	4.42E-08	2.80E-08	1.13E-08	4.53E-09	2.28E-09	1.15E-09	1.21E-11	1.21E-11
NP239	6.25E-05	6.23E-05	6.22E-05	6.22E-05	6.16E-05	6.10E-05	5.99E-05	5.88E-05	5.79E-05	5.71E-05	5.20E-05	5.20E-05
NP240M	3.94E-12	3.95E-12	3.96E-12	3.97E-12	4.03E-12	4.09E-12	4.20E-12	4.32E-12	4.40E-12	4.49E-12	5.07E-12	5.07E-12
PU236	8.92E-09	6.91E-11	1.80E-12	4.70E-14	1.31E-24	3.63E-35	2.80E-56	2.16E-77	3.16E-93	4.63-109	0.0	0.0
PU238	7.85E+03	6.70E+03	5.96E+03	5.29E+03	2.40E+03	1.09E+03	2.25E+02	4.63E+01	1.42E+01	4.33E+00	1.61E-03	1.61E-03
PU239	1.09E+03	1.09E+03	1.09E+03	1.09E+03	1.09E+03	1.08E+03	1.08E+03	1.07E+03	1.07E+03	1.06E+03	1.03E+03	1.03E+03
PU240	1.76E+03	1.76E+03	1.76E+03	1.76E+03	1.74E+03	1.72E+03	1.68E+03	1.65E+03	1.62E+03	1.60E+03	1.44E+03	1.44E+03
PU241	1.35E+01	5.16E+00	2.51E+00	1.22E+00	9.96E-03	1.38E-04	5.61E-05	5.52E-05	5.46E-05	5.39E-05	4.96E-05	4.96E-05
PU242	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00	3.50E+00	3.50E+00
PU243	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09
PU244	1.97E-11	1.98E-11	1.98E-11	1.99E-11	2.02E-11	2.05E-11	2.10E-11	2.16E-11	2.21E-11	2.25E-11	2.54E-11	2.54E-11
AM241	5.67E+03	5.79E+03	5.74E+03	5.65E+03	4.85E+03	4.14E+03	3.00E+03	2.18E+03	1.71E+03	1.35E+03	2.71E+02	2.71E+02
AM242M	1.44E-06	1.32E-06	1.23E-06	1.15E-06	7.29E-07	4.62E-07	1.86E-07	7.46E-08	3.77E-08	1.90E-08	1.99E-10	1.99E-10
AM242	4.23E-06	3.86E-06	3.61E-06	3.37E-06	2.14E-06	1.35E-06	5.44E-07	2.19E-07	1.10E-07	5.57E-08	5.83E-10	5.83E-10
AM243	8.33E-04	8.31E-04	8.30E-04	8.29E-04	8.21E-04	8.14E-04	7.98E-04	7.84E-04	7.73E-04	7.62E-04	6.94E-04	6.94E-04
CM242	1.11E-04	1.01E-04	9.46E-05	8.83E-05	5.60E-05	3.55E-05	1.43E-05	5.73E-06	2.89E-06	1.46E-06	1.53E-08	1.53E-08
CM243	2.06E-04	1.27E-04	8.79E-05	6.10E-05	5.37E-06	4.72E-07	3.64E-09	2.82E-11	7.34E-13	1.91E-14	5.27E-25	5.27E-25
CM244	3.07E+02	1.43E+02	8.05E+01	4.53E+01	9.88E-01	2.15E-02	1.02E-05	4.84E-09	1.56E-11	5.01E-14	1.21E-30	1.21E-30
CM245	6.28E-02	6.27E-02	6.26E-02	6.26E-02	6.21E-02	6.16E-02	6.06E-02	5.96E-02	5.89E-02	5.81E-02	5.36E-02	5.36E-02
CM246	2.28E-02	2.28E-02	2.27E-02	2.27E-02	2.24E-02	2.20E-02	2.14E-02	2.08E-02	2.03E-02	1.99E-02	1.72E-02	1.72E-02
CM247	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.44E-08	9.43E-08	9.43E-08
CM248	1.62E-06	1.62E-06	1.62E-06	1.62E-06	1.61E-06	1.61E-06	1.61E-06	1.61E-06	1.61E-06	1.61E-06	1.61E-06	1.61E-06
TOTAL	1.67E+04	1.55E+04	1.46E+04	1.38E+04	1.01E+04	8.04E+03	6.00E+03	4.96E+03	4.43E+03	4.03E+03	2.76E+03	2.76E+03

FISSION PRODUCTS

NUCLIDE CONCENTRATIONS, GRAM ATOMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
H 3	1.52E+00	4.96E-01	2.14E-01	9.21E-02	3.37E-04	1.23E-06	1.64E-11	2.20E-16	4.85E-20	1.07E-23	0.0
SE 79	5.89E-01	5.89E-01	5.89E-01	5.89E-01	5.88E-01	5.87E-01	5.86E-01	5.85E-01	5.84E-01	5.83E-01	5.77E-01
BR 79	3.14E-04	4.40E-04	5.34E-04	6.28E-04	1.26E-03	1.88E-03	3.14E-03	4.38E-03	5.32E-03	6.25E-03	1.24E-02
RB 87	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01
SR 87	1.83E-10	2.57E-10	3.12E-10	3.67E-10	7.33E-10	1.10E-09	1.83E-09	2.57E-09	3.12E-09	3.67E-09	7.33E-09
SR 90	3.35E+01	2.08E+01	1.46E+01	1.02E+01	9.44E-01	8.74E-02	7.49E-04	6.42E-06	1.81E-07	5.09E-09	2.36E-19
Y 89	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07
Y 90	8.40E-03	5.22E-03	3.65E-03	2.56E-03	2.37E-04	2.19E-05	1.88E-07	1.61E-09	4.53E-11	1.28E-12	5.91E-23
ZR 90	7.66E+01	8.93E+01	9.55E+01	9.99E+01	1.09E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02
ZR 93	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02	1.16E+02
NB 93	2.55E-03	3.60E-03	4.38E-03	5.17E-03	1.04E-02	1.56E-02	2.61E-02	3.66E-02	4.45E-02	5.23E-02	1.05E-01
NB 93M	9.71E-04	9.75E-04	9.76E-04	9.76E-04	9.77E-04	9.77E-04	9.77E-04	9.77E-04	9.77E-04	9.77E-04	9.76E-04
NB 94	6.89E-03	6.89E-03	6.89E-03	6.88E-03	6.86E-03	6.84E-03	6.79E-03	6.71E-03	6.67E-03	6.67E-03	6.45E-03
MO 95	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03
TC 99	4.19E+02	4.19E+02	4.19E+02	4.19E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.17E+02	4.16E+02
RU 99	6.81E-02	9.53E-02	1.16E-01	1.36E-01	2.72E-01	4.08E-01	6.81E-01	9.52E-01	1.16E+00	1.36E+00	2.72E+00
RU106	8.53E-16	9.11E-22	3.03E-26	1.01E-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RH103	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09
RH106	8.02E-22	8.57E-28	2.85E-32	9.46E-37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD106	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01
PD107	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03
PD108	3.56E-04	4.73E-04	5.53E-04	6.27E-04	9.90E-04	1.20E-03	1.39E-03	1.46E-03	1.48E-03	1.48E-03	1.49E-03
PD110	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08
AG107	3.41E-08	4.77E-08	5.79E-08	6.81E-08	1.36E-07	2.04E-07	3.41E-07	4.77E-07	5.79E-07	6.81E-07	1.36E-06
AG108	3.92E-12	3.52E-12	3.24E-12	2.99E-12	1.73E-12	1.00E-12	3.37E-13	1.13E-13	4.99E-14	2.20E-14	9.39E-17
AG108M	1.24E-03	1.11E-03	1.03E-03	9.46E-04	5.48E-04	3.18E-04	1.07E-04	3.58E-05	1.58E-05	6.97E-06	2.98E-08
AG110	3.65E-33	5.80E-42	1.46E-48	3.69E-55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG110M	2.41E-25	3.83E-34	9.65E-41	2.43E-47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD108	3.39E-05	4.50E-05	5.26E-05	5.97E-05	9.42E-05	1.14E-04	1.33E-04	1.39E-04	1.40E-04	1.41E-04	1.42E-04
CD110	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03
SN126	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.71E+00	2.71E+00	2.71E+00	2.70E+00	2.68E+00
SB125	1.77E-06	1.17E-08	2.71E-10	6.26E-12	7.83E-23	9.79E-34	0.0	0.0	0.0	0.0	0.0
SB126	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.29E-07	1.28E-07	1.28E-07
SB126M	9.83E-10	9.83E-10	9.83E-10	9.82E-10	9.82E-10	9.81E-10	9.80E-10	9.78E-10	9.77E-10	9.76E-10	9.70E-10
TE125	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01
TE125M	2.49E-08	1.64E-10	3.80E-12	8.79E-14	1.10E-24	1.37E-35	0.0	0.0	0.0	0.0	0.0
TE126	9.43E-04	1.32E-03	1.60E-03	1.89E-03	3.77E-03	5.65E-03	9.41E-03	1.32E-02	1.60E-02	1.88E-02	3.75E-02
I 129	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04
XE129	6.55E-02	9.17E-02	1.11E-01	1.31E-01	2.62E-01	3.93E-01	6.55E-01	9.17E-01	1.11E+00	1.31E+00	2.62E+00
XE131	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11
CS134	1.57E-07	1.89E-10	1.22E-12	7.91E-15	2.01E-29	5.08E-44	0.0	0.0	0.0	0.0	0.0
CS135	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.61E+01	6.60E+01
CS137	7.15E+01	4.50E+01	3.18E+01	2.25E+01	2.23E+00	2.22E-01	2.19E-03	2.15E-05	6.73E-07	2.11E-08	1.95E-18
BA134	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00
BA135	9.95E-04	1.39E-03	1.69E-03	1.99E-03	3.98E-03	5.97E-03	9.95E-03	1.39E-02	1.69E-02	1.99E-02	3.98E-02
BA137	1.55E+02	1.95E+02	1.95E+02	2.04E+02	2.25E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02
BA137M	1.09E-05	6.89E-06	4.87E-06	3.44E-06	3.42E-07	3.39E-08	3.34E-10	3.29E-12	1.03E-13	3.22E-15	2.99E-25
CE140	3.86E-15	5.42E-15	6.60E-15	7.77E-15	1.56E-14	2.34E-14	3.91E-14	5.47E-14	6.64E-14	7.82E-14	1.56E-13
CE144	6.25E-21	1.15E-28	1.82E-34	2.89E-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PR144	2.64E-25	4.87E-33	7.71E-39	1.22E-44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PR144M	1.32E-27	2.43E-35	3.85E-41	6.10E-47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND143	5.84E-10	8.35E-10	1.02E-09	1.21E-09	2.47E-09	3.72E-09	6.23E-09	8.74E-09	1.06E-08	1.25E-08	2.51E-08	
ND144	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01
PM147	3.28E-06	1.66E-08	3.17E-10	6.02E-12	2.03E-23	6.86E-35	0.0	0.0	0.0	0.0	0.0	0.0
SM147	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00
SM148	8.78E-15	1.35E-14	1.71E-14	2.08E-14	4.52E-14	6.98E-14	1.19E-13	1.68E-13	2.05E-13	2.41E-13	4.87E-13	
SM151	3.43E-02	2.94E-02	2.62E-02	2.33E-02	1.08E-02	5.00E-03	1.07E-03	2.30E-04	7.23E-05	2.28E-05	1.03E-08	
SM152	7.52E-02	7.93E-02	8.05E-02	8.11E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02
EU151	1.61E-02	2.10E-02	2.42E-02	2.70E-02	3.96E-02	4.53E-02	4.93E-02	5.01E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02
EU152	8.85E-03	3.20E-03	1.49E-03	6.93E-04	4.24E-06	2.60E-08	9.76E-13	3.66E-17	1.76E-20	8.41E-24	0.0	
EU154	4.63E-02	9.24E-03	2.76E-03	8.23E-04	2.61E-07	8.25E-11	8.28E-18	8.30E-25	4.67E-30	2.63E-35	0.0	
EU155	1.21E-04	7.41E-06	9.11E-07	1.12E-07	9.56E-14	8.16E-20	5.95E-32	4.34E-44	3.42E-53	2.70E-62	0.0	
GD152	3.57E-02	3.73E-02	3.78E-02	3.80E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02
GD154	2.55E+00	2.59E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00
GD155	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01
TOTAL	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04

FISSION PRODUCTS

 NUCLIDE CONCENTRATIONS, GRAMS
 BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
H 3	4.57E+00	1.49E+00	6.41E-01	2.76E-01	1.01E-03	3.69E-06	4.93E-11	6.59E-16	1.46E-19	3.22E-23	0.0
SE 79	4.65E+01	4.65E+01	4.65E+01	4.65E+01	4.65E+01	4.64E+01	4.63E+01	4.62E+01	4.61E+01	4.61E+01	4.56E+01
BR 79	2.48E-02	3.48E-02	4.22E-02	4.96E-02	9.92E-02	1.49E-01	2.48E-01	3.46E-01	4.20E-01	4.94E-01	9.83E-01
RB 87	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01
SR 87	1.60E-08	2.23E-08	2.71E-08	3.19E-08	6.38E-08	9.57E-08	1.60E-07	2.23E-07	2.71E-07	3.19E-07	6.38E-07
SR 90	3.01E+03	1.87E+03	1.31E+03	9.17E+02	8.49E+01	7.86E+00	6.74E-02	5.78E-04	1.63E-05	4.58E-07	2.12E-17
Y 89	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05
Y 90	7.56E-01	4.70E-01	3.29E-01	2.30E-01	2.13E-02	1.97E-03	1.69E-05	1.45E-07	4.08E-09	1.15E-10	5.32E-21
ZR 90	6.89E+03	8.04E+03	8.60E+03	8.99E+03	9.82E+03	9.90E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03
ZR 93	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.07E+04
NB 93	2.37E-01	3.35E-01	4.08E-01	4.81E-01	9.68E-01	1.45E+00	2.43E+00	3.40E+00	4.13E+00	4.86E+00	9.73E+00
NB 93M	9.03E-02	9.07E-02	9.08E-02	9.08E-02	9.08E-02	9.08E-02	9.08E-02	9.08E-02	9.08E-02	9.08E-02	9.08E-02
NB 94	6.48E-01	6.48E-01	6.47E-01	6.47E-01	6.45E-01	6.43E-01	6.38E-01	6.34E-01	6.31E-01	6.27E-01	6.06E-01
MO 95	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01
TC 99	4.14E+04	4.14E+04	4.14E+04	4.14E+04	4.14E+04	4.14E+04	4.14E+04	4.14E+04	4.13E+04	4.13E+04	4.12E+04
RU 99	6.74E+00	9.44E+00	1.15E+01	1.35E+01	2.70E+01	4.04E+01	6.74E+01	9.43E+01	1.14E+02	1.35E+02	2.69E+02
RU106	9.05E-14	9.66E-20	3.21E-24	1.07E-28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RH103	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07
RH106	8.50E-20	9.08E-26	3.02E-30	1.00E-34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD106	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01
PD107	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01
PD108	3.84E-02	5.11E-02	5.97E-02	6.77E-02	1.07E-01	1.30E-01	1.50E-01	1.57E-01	1.59E-01	1.60E-01	1.61E-01
PD110	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05
AG107	3.64E-06	5.10E-06	6.19E-06	7.29E-06	1.46E-05	2.19E-05	3.64E-05	5.10E-05	6.19E-05	7.29E-05	1.46E-04
AG108	4.24E-10	3.80E-10	3.50E-10	3.23E-10	1.87E-10	1.08E-10	3.64E-11	1.22E-11	5.39E-12	2.38E-12	1.01E-14
AG108M	1.34E-01	1.20E-01	1.11E-01	1.02E-01	5.92E-02	3.43E-02	1.15E-02	3.87E-03	1.71E-03	7.53E-04	3.21E-06
AG110	4.01E-31	6.38E-40	1.61E-46	4.05E-53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG110M	2.65E-23	4.21E-32	1.06E-38	2.68E-45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD108	3.66E-03	4.86E-03	5.69E-03	6.44E-03	1.02E-02	1.23E-02	1.43E-02	1.50E-02	1.52E-02	1.53E-02	1.53E-02
CD110	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01
SN126	3.43E+02	3.43E+02	3.43E+02	3.43E+02	3.42E+02	3.42E+02	3.42E+02	3.41E+02	3.41E+02	3.41E+02	3.38E+02
SB125	2.21E-04	1.46E-06	3.38E-08	7.83E-10	9.79E-21	1.22E-31	0.0	0.0	0.0	0.0	0.0
SB126	1.63E-05	1.63E-05	1.63E-05	1.63E-05	1.63E-05	1.63E-05	1.62E-05	1.62E-05	1.62E-05	1.62E-05	1.61E-05
SB126M	1.24E-07	1.24E-07	1.24E-07	1.24E-07	1.24E-07	1.24E-07	1.23E-07	1.23E-07	1.23E-07	1.23E-07	1.22E-07
TE125	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01
TE125M	3.11E-06	2.05E-08	4.75E-10	1.10E-11	1.37E-22	1.72E-33	0.0	0.0	0.0	0.0	0.0
TE126	1.19E-01	1.66E-01	2.02E-01	2.38E-01	4.75E-01	7.12E-01	1.19E+00	1.66E+00	2.01E+00	2.37E+00	4.72E+00
I 129	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06
XE129	8.45E+00	1.18E+01	1.44E+01	1.69E+01	3.38E+01	5.07E+01	8.45E+01	1.18E+02	1.44E+02	1.69E+02	3.38E+02
KR131	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09
CS134	2.10E-05	2.53E-08	1.64E-10	1.06E-12	2.69E-27	6.81E-42	0.0	0.0	0.0	0.0	0.0
CS135	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.92E+03	8.91E+03
CS137	9.79E+03	6.17E+03	4.36E+03	3.08E+03	3.06E+02	3.04E+01	2.99E-01	2.95E-03	9.22E-05	2.88E-06	2.68E-16
BA134	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02
BA135	1.34E-01	1.88E-01	2.28E-01	2.69E-01	5.38E-01	8.06E-01	1.34E+00	1.88E+00	2.28E+00	2.69E+00	5.37E+00
BA137	2.13E+04	2.49E+04	2.67E+04	2.80E+04	3.08E+04	3.10E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04
BA137M	1.50E-03	9.44E-04	6.67E-04	4.72E-04	4.68E-05	4.65E-06	4.58E-08	4.51E-10	1.41E-11	4.41E-13	4.10E-23
CE140	5.40E-13	7.59E-13	9.24E-13	1.09E-12	2.18E-12	3.28E-12	5.47E-12	7.66E-12	9.30E-12	1.09E-11	2.19E-11
CE144	9.00E-19	1.66E-26	2.63E-32	4.16E-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PR144	3.80E-23	7.01E-31	1.11E-36	1.76E-42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PR144M	1.90E-25	3.50E-33	5.55E-39	8.78E-45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND143	8.35E-08	1.19E-07	1.46E-07	1.73E-07	3.53E-07	5.32E-07	8.91E-07	1.25E-06	1.52E-06	1.79E-06	3.58E-06	
ND144	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01
PM147	4.82E-04	2.45E-06	4.65E-08	8.85E-10	2.99E-21	1.01E-32	0.0	0.0	0.0	0.0	0.0	0.0
SM147	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02
SM148	1.30E-12	2.00E-12	2.53E-12	3.07E-12	6.70E-12	1.03E-11	1.76E-11	2.48E-11	3.03E-11	3.57E-11	7.20E-11	
SM151	5.17E+00	4.43E+00	3.95E+00	3.52E+00	1.63E+00	7.55E-01	1.62E-01	3.47E-02	1.09E-02	3.44E-03	1.56E-06	
SM152	1.14E+01	1.21E+01	1.22E+01	1.23E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01
EU151	2.43E+00	3.17E+00	3.65E+00	4.08E+00	5.97E+00	6.85E+00	7.44E+00	7.57E+00	7.59E+00	7.60E+00	7.60E+00	
EU152	1.35E+00	4.86E-01	2.26E-01	1.05E-01	6.45E-04	3.95E-06	1.48E-10	5.56E-15	2.67E-18	1.28E-21	0.0	
EU154	7.13E+00	1.42E+00	4.25E-01	1.27E-01	4.02E-05	1.27E-08	1.27E-15	1.28E-22	7.20E-28	4.06E-33	0.0	
EU155	1.88E-02	1.15E-03	1.41E-04	1.74E-05	1.48E-11	1.27E-17	9.22E-30	6.72E-42	5.30E-51	4.18E-60	0.0	
GD152	5.43E+00	5.67E+00	5.74E+00	5.78E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00
GD154	3.93E+02	3.99E+02	4.00E+02	4.00E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02
GD155	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01
TOTAL	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06

FISSION PRODUCTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
H 3	1.63E+15	5.32E+14	2.29E+14	9.87E+13	3.61E+11	1.32E+09	1.76E+04	2.35E-01	5.20E-05	1.15E-08	0.0
SE 79	1.20E+11	1.20E+11	1.20E+11	1.20E+11	1.20E+11	1.20E+11	1.19E+11	1.19E+11	1.19E+11	1.19E+11	1.18E+11
RB 87	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04
SR 90	1.52E+16	9.46E+15	6.62E+15	4.63E+15	4.29E+14	3.97E+13	3.40E+11	2.92E+09	8.22E+07	2.31E+06	1.07E-04
Y 90	1.52E+16	9.46E+15	6.62E+15	4.63E+15	4.29E+14	3.97E+13	3.40E+11	2.92E+09	8.22E+07	2.32E+06	1.07E-04
ZR 93	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12	1.00E+12
NB 93M	9.45E+11	9.48E+11	9.49E+11	9.50E+11	9.50E+11	9.50E+11	9.50E+11	9.50E+11	9.50E+11	9.50E+11	9.50E+11
NB 94	4.49E+09	4.49E+09	4.49E+09	4.49E+09	4.47E+09	4.46E+09	4.43E+09	4.40E+09	4.37E+09	4.35E+09	4.20E+09
TC 99	2.60E+13	2.60E+13	2.60E+13	2.60E+13	2.60E+13	2.60E+13	2.60E+13	2.60E+13	2.59E+13	2.59E+13	2.58E+13
RU106	1.12E+01	1.20E-05	3.98E-10	1.32E-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RH106	1.12E+01	1.20E-05	3.98E-10	1.32E-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD107	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07
AG108	1.15E+10	1.03E+10	9.52E+09	8.77E+09	5.08E+09	2.95E+09	9.89E+08	3.32E+08	1.46E+08	6.46E+07	2.76E+05
AG108M	1.29E+11	1.16E+11	1.07E+11	9.86E+10	5.71E+10	3.31E+10	1.11E+10	3.73E+09	1.65E+09	7.26E+08	3.10E+06
AG110	6.19E-11	9.85E-20	2.48E-26	6.26E-33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG110M	4.65E-09	7.41E-18	1.87E-24	4.70E-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN126	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.59E+11	3.59E+11	3.58E+11	3.58E+11	3.58E+11	3.55E+11
SB125	8.49E+09	5.60E+07	1.30E+06	3.00E+04	3.75E-07	4.69E-18	0.0	0.0	0.0	0.0	0.0
SB126	5.04E+10	5.04E+10	5.04E+10	5.04E+10	5.04E+10	5.03E+10	5.02E+10	5.02E+10	5.01E+10	5.01E+10	4.97E+10
SB126M	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.60E+11	3.59E+11	3.59E+11	3.58E+11	3.58E+11	3.58E+11	3.55E+11
TE126M	2.07E+09	1.37E+07	3.16E+05	7.33E+03	9.16E-08	1.15E-18	0.0	0.0	0.0	0.0	0.0
I 129	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13
CS134	1.01E+09	1.21E+06	7.85E+03	5.07E+01	1.29E-13	3.26E-28	0.0	0.0	0.0	0.0	0.0
CS135	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11	3.80E+11
CS137	3.15E+16	1.99E+16	1.40E+16	9.93E+15	9.86E+14	9.78E+13	9.64E+11	9.50E+09	2.97E+08	9.29E+06	8.62E-04
BA137M	2.98E+16	1.88E+16	1.33E+16	9.39E+15	9.32E+14	9.26E+13	9.12E+11	8.98E+09	2.81E+08	8.79E+06	8.16E-04
CE144	1.06E-04	1.96E-12	3.10E-18	4.91E-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PR144	1.06E-04	1.96E-12	3.10E-18	4.91E-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PR144M	1.28E-06	2.35E-14	3.72E-20	5.89E-26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND144	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00
PM147	1.65E+10	8.40E+07	1.60E+06	3.04E+04	1.03E-07	3.46E-19	0.0	0.0	0.0	0.0	0.0
SM147	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05
SM148	1.45E-14	2.23E-14	2.83E-14	3.43E-14	7.48E-14	1.15E-13	1.96E-13	2.78E-13	3.38E-13	3.99E-13	8.05E-13
SM151	5.04E+12	4.32E+12	3.85E+12	3.43E+12	1.59E+12	7.35E+11	1.58E+11	3.38E+10	1.06E+10	3.35E+09	1.52E+06
EU152	8.61E+12	3.11E+12	1.45E+12	6.74E+11	4.13E+09	2.53E+07	9.49E+02	3.56E-02	1.71E-05	8.19E-09	0.0
EU154	7.12E+13	1.42E+13	4.24E+12	1.27E+12	4.01E+08	1.27E+05	1.27E-02	1.28E-09	7.19E-15	4.05E-20	0.0
EU155	3.24E+11	1.98E+10	2.43E+09	2.99E+08	2.55E+02	2.18E-04	1.59E-16	1.16E-28	9.12E-38	7.20E-47	0.0
GD152	4.38E+00	4.57E+00	4.63E+00	4.66E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00
TOTAL	9.36E+16	5.82E+16	4.09E+16	2.87E+16	2.83E+15	3.25E+14	5.69E+13	5.42E+13	5.42E+13	5.42E+13	5.41E+13

FISSION PRODUCTS

NUCLIDE THERMAL POWER, WATTS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
H 3	1.49E+00	4.85E-01	2.09E-01	9.01E-02	3.29E-04	1.20E-06	1.61E-11	2.15E-16	4.75E-20	1.05E-23	0.0
SE 79	8.07E-04	8.07E-04	8.07E-04	8.07E-04	8.06E-04	8.05E-04	8.03E-04	8.02E-04	8.00E-04	7.99E-04	7.91E-04
RB 87	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09
SR 90	4.77E+02	2.97E+02	2.08E+02	1.45E+02	1.34E+01	1.25E+00	1.07E-02	9.15E-05	2.58E-06	7.26E-08	3.36E-18
Y 90	2.28E+03	1.42E+03	9.92E+02	6.94E+02	6.42E+01	5.95E+00	5.10E-02	4.37E-04	1.23E-05	3.47E-07	1.60E-17
ZR 93	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03	3.14E-03
NB 93M	4.53E-03	4.54E-03	4.55E-03	4.55E-03	4.55E-03	4.55E-03	4.55E-03	4.55E-03	4.55E-03	4.55E-03	4.55E-03
NB 94	1.24E-03	1.24E-03	1.24E-03	1.24E-03	1.23E-03	1.23E-03	1.22E-03	1.21E-03	1.20E-03	1.20E-03	1.16E-03
TC 99	3.52E-01	3.52E-01	3.52E-01	3.52E-01	3.52E-01	3.52E-01	3.52E-01	3.52E-01	3.52E-01	3.51E-01	3.50E-01
RU106	1.79E-14	1.92E-20	6.37E-25	2.12E-29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RH106	2.90E-12	3.10E-18	1.03E-22	3.42E-27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD107	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08
AG108	1.16E-03	1.04E-03	9.59E-04	8.83E-04	5.12E-04	2.97E-04	9.96E-05	3.34E-05	1.48E-05	6.51E-06	2.78E-08
AG108M	3.40E-02	3.05E-02	2.81E-02	2.59E-02	1.50E-02	8.70E-03	2.92E-03	9.81E-04	4.33E-04	1.91E-04	8.15E-07
AG110	1.20E-23	1.91E-32	4.82E-39	1.21E-45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG110M	2.10E-21	3.34E-30	8.42E-37	2.12E-43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN126	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.20E-02
SB125	7.17E-04	4.73E-06	1.10E-07	2.54E-09	3.17E-20	3.97E-31	0.0	0.0	0.0	0.0	0.0
SB126	2.52E-02	2.52E-02	2.52E-02	2.52E-02	2.51E-02	2.51E-02	2.51E-02	2.51E-02	2.50E-02	2.50E-02	2.48E-02
SB126M	1.24E-01	1.24E-01	1.24E-01	1.24E-01	1.24E-01	1.24E-01	1.24E-01	1.23E-01	1.23E-01	1.23E-01	1.22E-01
TE125M	4.71E-05	3.11E-07	7.19E-09	1.66E-10	2.08E-21	2.60E-32	0.0	0.0	0.0	0.0	0.0
I 129	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01	3.13E-01
CS134	2.77E-04	3.34E-07	2.16E-09	1.40E-11	3.54E-26	8.98E-41	0.0	0.0	0.0	0.0	0.0
CS135	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03	3.43E-03
CS137	9.42E+02	5.94E+02	4.20E+02	2.97E+02	2.95E+01	2.92E+00	2.88E-02	2.84E-04	8.88E-06	2.78E-07	2.58E-17
BA137M	3.16E+03	1.99E+03	1.41E+03	9.97E+02	9.90E+01	9.82E+00	9.68E-02	9.53E-04	2.98E-05	9.32E-07	8.66E-17
CE144	1.91E-18	3.51E-26	5.56E-32	8.80E-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PR144	2.11E-17	3.90E-25	6.16E-31	9.76E-37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PR144M	1.18E-20	2.17E-28	3.44E-34	5.45E-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PM147	1.60E-04	8.14E-07	1.55E-08	2.94E-10	9.94E-22	3.35E-33	0.0	0.0	0.0	0.0	0.0
SM147	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08
SM148	4.69E-27	7.20E-27	9.13E-27	1.11E-26	2.41E-26	3.72E-26	6.34E-26	8.96E-26	1.09E-25	1.29E-25	2.60E-25
SM151	1.60E-02	1.37E-02	1.22E-02	1.09E-02	5.03E-03	2.33E-03	5.00E-04	1.07E-04	3.37E-05	1.06E-05	4.81E-09
EU152	1.76E+00	6.37E-01	2.97E-01	1.38E-01	8.46E-04	5.18E-06	1.94E-10	7.30E-15	3.50E-18	1.68E-21	0.0
EU154	1.72E+01	3.44E+00	1.03E+00	3.06E-01	9.70E-05	3.07E-08	3.08E-15	3.09E-22	1.74E-27	9.80E-33	0.0
EU155	6.36E-03	3.89E-04	4.78E-05	5.88E-06	5.02E-12	4.28E-18	3.12E-30	2.27E-42	1.79E-51	1.41E-60	0.0
GD152	1.54E-12	1.61E-12	1.63E-12	1.64E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12
TOTAL	6.89E+03	4.31E+03	3.03E+03	2.13E+03	2.07E+02	2.08E+01	1.03E+00	8.41E-01	8.38E-01	8.37E-01	8.35E-01

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

		CONCENTRATIONS ,GRAMATOMS									
TOTAL	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06
		CONCENTRATIONS ,GRAMS									
TOTAL	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08
		RADIOACTIVITY ,BECQUEREL									
TOTAL	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
	1.55E+17	1.05E+17	8.10E+16	6.43E+16	2.32E+16	1.40E+16	8.35E+15	6.50E+15	5.78E+15	5.29E+15	3.83E+15
		THERMAL POWER ,WATTS									
TOTAL	INITIAL	.700E+2 Y	.850E+2 Y	.100E+3 Y	.200E+3 Y	.300E+3 Y	.500E+3 Y	.700E+3 Y	.850E+3 Y	.100E+4 Y	.200E+4 Y
	2.40E+04	2.01E+04	1.80E+04	1.63E+04	1.05E+04	8.19E+03	6.09E+03	5.04E+03	4.51E+03	4.10E+03	2.83E+03

LIGHT ELEMENTS

NUCLIDE CONCENTRATIONS, GRAM ATOMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y
BE 10	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.33E-07	1.32E-07	1.32E-07	1.31E-07	1.30E-07	1.29E-07	1.27E-07
B 10	1.15E-10	1.73E-10	2.88E-10	4.03E-10	4.89E-10	5.75E-10	1.15E-09	1.72E-09	2.85E-09	3.97E-09	5.64E-09
C 14	2.82E+01	2.50E+01	1.96E+01	1.54E+01	1.29E+01	1.07E+01	3.20E+00	9.55E-01	8.50E-02	7.56E-03	2.01E-04
N 14	7.72E+00	1.09E+01	1.63E+01	2.05E+01	2.31E+01	2.52E+01	3.28E+01	3.50E+01	3.59E+01	3.59E+01	3.59E+01
NE 22	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03
S 36	2.18E-04	3.27E-04	5.44E-04	7.60E-04	9.22E-04	1.08E-03	2.14E-03	3.17E-03	5.17E-03	7.08E-03	9.78E-03
CL 35	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07
CL 36	2.49E+00	2.49E+00	2.47E+00	2.46E+00	2.45E+00	2.45E+00	2.39E+00	2.34E+00	2.23E+00	2.13E+00	1.99E+00
AR 36	1.13E-02	1.69E-02	2.81E-02	3.93E-02	4.76E-02	5.59E-02	1.11E-01	1.64E-01	2.67E-01	3.65E-01	5.05E-01
AR 39	1.16E-07	8.86E-09	5.13E-11	2.97E-13	6.22E-15	1.31E-16	8.46E-28	5.48E-39	0.0	0.0	0.0
K 39	2.00E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05
K 41	1.56E-02	2.33E-02	3.85E-02	6.34E-02	6.44E-02	7.53E-02	1.44E-01	2.08E-01	3.20E-01	4.14E-01	5.28E-01
CA 41	9.03E-01	8.95E-01	8.80E-01	8.65E-01	8.54E-01	8.43E-01	7.74E-01	7.11E-01	5.99E-01	5.05E-01	3.90E-01
SC 45	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06
TI 46	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07
TI 49	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07
V 51	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07
CR 54	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02
MN 55	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00
FE 58	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05
CO 59	4.67E+01	6.98E+01	1.15E+02	1.60E+02	1.93E+02	2.26E+02	4.33E+02	6.23E+02	9.57E+02	1.24E+03	1.58E+03
NI 59	2.67E+03	2.65E+03	2.61E+03	2.56E+03	2.53E+03	2.50E+03	2.29E+03	2.10E+03	1.76E+03	1.48E+03	1.14E+03
NI 60	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01
NI 63	7.58E-05	4.06E-08	1.16E-14	3.33E-21	4.13E-26	5.11E-31	0.0	0.0	0.0	0.0	0.0
CU 63	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02
CU 65	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03
NB 93	3.81E-06	5.21E-06	7.31E-06	8.73E-06	9.48E-06	1.00E-05	1.14E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05
MO 93	7.83E-06	6.42E-06	4.32E-06	2.91E-06	2.16E-06	1.61E-06	2.21E-07	3.05E-08	5.81E-10	1.11E-11	2.90E-14
W 182	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05
TOTAL	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03

LIGHT ELEMENTS

NUCLIDE CONCENTRATIONS, GRAMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y
BE 10	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.33E-06	1.32E-06	1.32E-06	1.31E-06	1.30E-06	1.29E-06	1.27E-06
B 10	1.15E-09	1.73E-09	2.88E-09	4.03E-09	4.89E-09	5.75E-09	1.15E-08	1.72E-08	2.85E-08	3.97E-08	5.64E-08
C 14	3.95E+02	3.50E+02	2.75E+02	2.16E+02	1.80E+02	1.50E+02	4.48E+01	1.34E+01	1.19E+00	1.06E-01	2.81E-03
N 14	1.08E+02	1.53E+02	2.28E+02	2.87E+02	3.23E+02	3.53E+02	4.59E+02	4.90E+02	5.02E+02	5.03E+02	5.03E+02
NE 22	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02
S 36	7.87E-03	1.18E-02	1.96E-02	2.74E-02	3.32E-02	3.90E-02	7.70E-02	1.14E-01	1.86E-01	2.55E-01	3.52E-01
CL 35	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06
CL 36	8.97E+01	8.95E+01	8.91E+01	8.87E+01	8.84E+01	8.81E+01	8.61E+01	8.41E+01	8.03E+01	7.67E+01	7.16E+01
AR 36	4.06E-01	6.08E-01	1.01E+00	1.41E+00	1.71E+00	2.01E+00	3.98E+00	5.90E+00	9.61E+00	1.32E+01	1.82E+01
AR 39	4.54E-06	3.46E-07	2.00E-09	1.16E-11	2.43E-13	5.09E-15	3.30E-26	2.14E-37	0.0	0.0	0.0
K 39	7.81E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04
K 41	6.39E-01	9.54E-01	1.58E+00	2.19E+00	2.64E+00	3.09E+00	5.92E+00	8.53E+00	1.31E+01	1.70E+01	2.17E+01
CA 41	3.70E+01	3.67E+01	3.61E+01	3.55E+01	3.50E+01	3.46E+01	3.17E+01	2.91E+01	2.46E+01	2.07E+01	1.60E+01
SC 45	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04
TI 46	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05
TI 49	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05
V 51	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05
CR 54	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01
MN 55	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02
FE 58	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03
CO 59	2.76E+03	4.12E+03	6.81E+03	9.45E+03	1.14E+04	1.33E+04	2.55E+04	3.67E+04	5.64E+04	7.30E+04	9.30E+04
NI 59	1.58E+05	1.56E+05	1.54E+05	1.51E+05	1.49E+05	1.47E+05	1.35E+05	1.24E+05	1.04E+05	8.76E+04	6.75E+04
NI 60	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03
NI 63	4.77E-03	2.55E-06	7.32E-13	2.10E-19	2.60E-24	3.22E-29	0.0	0.0	0.0	0.0	0.0
CU 63	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04
CU 65	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02
NB 93	3.54E-04	4.85E-04	6.80E-04	8.12E-04	8.81E-04	9.33E-04	1.06E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03
MO 93	7.28E-04	5.97E-04	4.02E-04	2.70E-04	2.01E-04	1.49E-04	2.06E-05	2.84E-06	5.41E-08	1.03E-09	2.70E-12
W 182	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02
TOTAL	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y
BE 10	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.10E+03	1.09E+03	1.09E+03	1.08E+03	1.07E+03	1.05E+03
C 14	6.52E+13	5.78E+13	4.64E+13	3.56E+13	2.97E+13	2.48E+13	7.39E+12	2.20E+12	1.96E+11	1.75E+10	4.64E+08
CL 36	1.10E+11	1.09E+11	1.09E+11	1.08E+11	1.08E+11	1.08E+11	1.05E+11	1.03E+11	9.81E+10	9.37E+10	8.74E+10
AR 39	5.73E+06	4.36E+05	2.52E+03	1.46E+01	3.06E-01	6.42E-03	4.16E-14	2.70E-25	0.0	0.0	0.0
CA 41	1.48E+11	1.46E+11	1.44E+11	1.41E+11	1.40E+11	1.38E+11	1.26E+11	1.16E+11	9.78E+10	8.24E+10	6.38E+10
NI 59	4.42E+14	4.39E+14	4.31E+14	4.24E+14	4.18E+14	4.13E+14	3.79E+14	3.47E+14	2.92E+14	2.46E+14	1.89E+14
NI 63	1.09E+10	5.83E+06	1.67E+00	4.79E-07	5.94E-12	7.35E-17	0.0	0.0	0.0	0.0	0.0
MO 93	2.96E+07	2.43E+07	1.63E+07	1.10E+07	8.17E+06	6.07E+06	8.38E+05	1.16E+05	2.20E+03	4.19E+01	1.10E-01
TOTAL	5.08E+14	4.97E+14	4.77E+14	4.60E+14	4.48E+14	4.38E+14	3.86E+14	3.50E+14	2.92E+14	2.46E+14	1.89E+14

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y
BE 10	3.57E-11	3.57E-11	3.56E-11	3.56E-11	3.56E-11	3.55E-11	3.54E-11	3.52E-11	3.49E-11	3.46E-11	3.42E-11
C 14	5.17E-01	4.58E-01	3.60E-01	2.82E-01	2.36E-01	1.96E-01	5.86E-02	1.75E-02	1.56E-03	1.38E-04	3.68E-06
CL 36	4.33E-03	4.32E-03	4.30E-03	4.28E-03	4.27E-03	4.25E-03	4.15E-03	4.06E-03	3.88E-03	3.70E-03	3.45E-03
AR 39	5.19E-07	3.95E-08	2.28E-10	1.32E-12	2.77E-14	5.81E-16	3.77E-27	2.44E-38	0.0	0.0	0.0
CA 41	1.01E-02	1.00E-02	9.84E-03	9.67E-03	9.55E-03	9.42E-03	8.65E-03	7.94E-03	6.69E-03	5.64E-03	4.36E-03
NI 59	7.61E+01	7.55E+01	7.42E+01	7.29E+01	7.20E+01	7.10E+01	6.51E+01	5.97E+01	5.02E+01	4.22E+01	3.26E+01
NI 63	1.17E-04	6.26E-08	1.79E-14	5.14E-21	6.37E-26	7.89E-31	0.0	0.0	0.0	0.0	0.0
MO 93	7.50E-08	6.16E-08	4.14E-08	2.78E-08	2.07E-08	1.54E-08	2.12E-09	2.92E-10	5.57E-12	1.06E-13	2.78E-16
TOTAL	7.67E+01	7.59E+01	7.46E+01	7.32E+01	7.22E+01	7.12E+01	6.52E+01	5.98E+01	5.02E+01	4.23E+01	3.26E+01

ACTINIDES

 NUCLIDE CONCENTRATIONS, GRAM ATOMS
 BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y
HE 4	6.48E+02	8.05E+02	1.08E+03	1.31E+03	1.47E+03	1.61E+03	2.30E+03	2.73E+03	3.24E+03	3.53E+03	3.78E+03
TL207	1.68E-11	1.94E-11	2.44E-11	2.93E-11	3.28E-11	3.63E-11	5.75E-11	7.56E-11	1.04E-10	1.24E-10	1.43E-10
TL208	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11
TL209	5.38E-15	1.36E-14	4.07E-14	7.98E-14	1.16E-13	1.56E-13	5.06E-13	9.18E-13	1.76E-12	2.54E-12	3.59E-12
PB206	1.30E-02	2.00E-02	3.83E-02	6.47E-02	9.04E-02	1.21E-01	4.64E-01	1.03E+00	2.81E+00	5.31E+00	1.01E+01
PB207	2.17E-03	3.56E-03	6.91E-03	1.10E-02	1.46E-02	1.85E-02	5.46E-02	1.06E-01	2.44E-01	4.20E-01	7.29E-01
PB208	2.51E-02	3.72E-02	6.13E-02	8.54E-02	1.03E-01	1.22E-01	2.42E-01	3.63E-01	6.04E-01	8.45E-01	1.21E+00
PB209	2.20E-11	5.57E-11	1.66E-10	3.27E-10	4.74E-10	6.40E-10	2.07E-09	3.76E-09	7.19E-09	1.04E-08	1.47E-08
PB210	2.09E-04	2.42E-04	3.54E-04	4.94E-04	6.06E-04	7.20E-04	1.47E-03	2.16E-03	3.56E-03	4.60E-03	5.86E-03
PB211	1.28E-10	1.47E-10	1.85E-10	2.22E-10	2.49E-10	2.75E-10	4.36E-10	5.74E-10	7.88E-10	9.40E-10	1.09E-09
PB212	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08
PB214	4.78E-10	5.54E-10	8.09E-10	1.13E-09	1.38E-09	1.65E-09	3.36E-09	4.94E-09	8.13E-09	1.05E-08	1.34E-08
BI209	2.38E-05	9.29E-05	4.85E-04	1.38E-03	2.48E-03	4.01E-03	2.83E-02	8.17E-02	2.84E-01	6.08E-01	1.30E+00
BI210	1.29E-07	1.49E-07	2.18E-07	3.04E-07	3.73E-07	4.43E-07	9.04E-07	1.33E-06	2.19E-06	2.83E-06	3.60E-06
BI211	7.55E-12	8.69E-12	1.09E-11	1.31E-11	1.47E-11	1.62E-11	2.57E-11	3.38E-11	4.65E-11	5.55E-11	6.40E-11
BI212	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09
BI213	5.08E-12	1.28E-11	3.84E-11	7.53E-11	1.09E-10	1.48E-10	4.77E-10	8.66E-10	1.66E-09	2.40E-09	3.39E-09
BI214	3.55E-10	4.11E-10	6.00E-10	8.38E-10	1.03E-09	1.22E-09	2.49E-09	3.67E-09	6.04E-09	7.80E-09	9.94E-09
PO210	3.55E-06	4.12E-06	6.01E-06	8.39E-06	1.03E-05	1.22E-05	2.50E-05	3.67E-05	6.05E-05	7.81E-05	9.95E-05
PO211	9.92E-17	1.14E-16	1.44E-16	1.72E-16	1.93E-16	2.14E-16	3.38E-16	4.45E-16	6.11E-16	7.29E-16	8.42E-16
PO212	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19
PO213	7.61E-21	1.92E-20	5.75E-20	1.13E-19	1.64E-19	2.21E-19	7.16E-19	1.30E-18	2.49E-18	3.60E-18	5.08E-18
PO214	4.88E-17	5.66E-17	8.26E-17	1.15E-16	1.41E-16	1.68E-16	3.43E-16	5.05E-16	8.31E-16	1.07E-15	1.37E-15
PO215	1.05E-16	1.21E-16	1.52E-16	1.82E-16	2.05E-16	2.26E-16	3.68E-16	4.71E-16	6.48E-16	7.73E-16	8.92E-16
PO216	8.26E-14	8.26E-14	8.26E-14	8.26E-14	8.26E-14	8.26E-14	8.26E-14	8.26E-14	8.26E-14	8.27E-14	8.27E-14
PO218	5.43E-11	6.30E-11	9.20E-11	1.28E-10	1.58E-10	1.87E-10	3.82E-10	5.62E-10	9.25E-10	1.20E-09	1.52E-09
AT217	5.99E-17	1.51E-16	4.52E-16	8.88E-16	1.29E-15	1.74E-15	5.63E-15	1.02E-14	1.95E-14	2.83E-14	4.00E-14
RN219	2.34E-13	2.69E-13	3.39E-13	4.06E-13	4.55E-13	5.03E-13	7.97E-13	1.05E-12	1.44E-12	1.72E-12	1.98E-12
RN220	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11
RN222	9.81E-08	1.14E-07	1.66E-07	2.32E-07	2.85E-07	3.38E-07	6.90E-07	1.02E-06	1.67E-06	2.16E-06	2.75E-06
FR221	5.34E-13	1.35E-12	4.03E-12	7.92E-12	1.15E-11	1.55E-11	5.02E-11	9.11E-11	1.74E-10	2.52E-10	3.56E-10
FR223	1.08E-12	1.25E-12	1.57E-12	1.88E-12	2.11E-12	2.33E-12	3.69E-12	4.85E-12	6.66E-12	7.95E-12	9.17E-12
RA223	5.83E-08	6.72E-08	8.45E-08	1.01E-07	1.14E-07	1.26E-07	1.99E-07	2.62E-07	3.60E-07	4.29E-07	4.95E-07
RA224	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07
RA225	2.37E-09	5.99E-09	1.79E-08	3.52E-08	5.10E-08	6.89E-08	2.23E-07	4.04E-07	7.74E-07	1.12E-06	1.58E-06
RA226	1.50E-02	1.74E-02	2.54E-02	3.54E-02	4.35E-02	5.17E-02	1.05E-01	1.55E-01	2.55E-01	3.30E-01	4.20E-01
RA228	1.16E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04
AC225	1.60E-09	4.05E-09	1.21E-08	2.37E-08	3.44E-08	4.65E-08	1.51E-07	2.73E-07	5.23E-07	7.57E-07	1.07E-06
AC227	4.06E-05	4.67E-05	5.88E-05	7.04E-05	7.90E-05	8.73E-05	1.38E-04	1.82E-04	2.50E-04	2.98E-04	3.44E-04
AC228	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08
TH227	9.41E-08	1.08E-07	1.36E-07	1.63E-07	1.83E-07	2.03E-07	3.21E-07	4.22E-07	5.80E-07	6.92E-07	7.99E-07
TH228	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05
TH229	4.29E-04	1.09E-03	3.24E-03	6.37E-03	9.23E-03	1.25E-02	4.04E-02	7.32E-02	1.40E-01	2.03E-01	2.87E-01
TH230	8.98E-01	1.18E+00	1.74E+00	2.29E+00	2.70E+00	3.10E+00	5.65E+00	8.00E+00	1.21E+01	1.57E+01	2.00E+01
TH231	4.46E-08	4.48E-08	4.53E-08	4.58E-08	4.61E-08	4.65E-08	4.83E-08	4.97E-08	5.15E-08	5.25E-08	5.32E-08
TH232	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05
TH234	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05
PA231	6.10E-02	7.03E-02	8.84E-02	1.06E-01	1.19E-01	1.31E-01	2.08E-01	2.74E-01	3.76E-01	4.49E-01	5.18E-01
PA233	8.79E-06	9.06E-06	9.11E-06	9.11E-06	9.11E-06	9.10E-06	9.07E-06	9.04E-06	8.99E-06	8.93E-06	8.84E-06

PA234M	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09
PA234	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10
U 232	2.33E-15	1.54E-19	6.71E-28	2.93E-36	1.57E-42	8.42E-49	0.0	0.0	0.0	0.0	0.0	0.0
U 233	1.24E-01	2.08E-01	3.76E-01	5.43E-01	6.67E-01	7.90E-01	1.59E+00	2.35E+00	3.77E+00	5.07E+00	6.78E+00	6.78E+00
U 234	1.03E+02	1.03E+02	1.03E+02	1.03E+02	1.04E+02	1.04E+02	1.04E+02	1.05E+02	1.06E+02	1.07E+02	1.08E+02	1.08E+02
U 235	1.08E+04	1.08E+04	1.10E+04	1.11E+04	1.12E+04	1.12E+04	1.17E+04	1.20E+04	1.24E+04	1.27E+04	1.29E+04	1.29E+04
U 236	9.60E+02	1.04E+03	1.19E+03	1.31E+03	1.38E+03	1.44E+03	1.68E+03	1.76E+03	1.79E+03	1.80E+03	1.80E+03	1.80E+03
U 237	2.08E-12	1.92E-12	1.63E-12	1.38E-12	1.22E-12	1.08E-12	4.79E-13	2.12E-13	4.15E-14	8.13E-15	7.04E-16	7.04E-16
U 238	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06
U 240	3.93E-18	4.38E-18	5.27E-18	6.15E-18	6.82E-18	7.48E-18	1.18E-17	1.61E-17	2.44E-17	3.23E-17	4.36E-17	4.36E-17
NP237	2.54E+02	2.62E+02	2.64E+02	2.64E+02	2.64E+02	2.63E+02	2.63E+02	2.62E+02	2.60E+02	2.58E+02	2.56E+02	2.56E+02
NP238	4.09E-17	4.28E-19	4.69E-23	5.15E-27	5.53E-30	5.93E-33	0.0	0.0	0.0	0.0	0.0	0.0
NP239	3.88E-10	3.53E-10	2.93E-10	2.43E-10	2.11E-10	1.83E-10	7.16E-11	2.80E-11	4.33E-12	7.08E-13	9.25E-14	9.25E-14
NP240M	3.44E-20	3.83E-20	4.61E-20	5.38E-20	5.96E-20	6.54E-20	1.03E-19	1.41E-19	2.13E-19	2.82E-19	3.81E-19	3.81E-19
PU238	1.19E-05	4.43E-09	8.90E-16	3.07E-20	1.41E-23	1.50E-26	0.0	0.0	0.0	0.0	0.0	0.0
PU239	2.23E+03	2.17E+03	2.05E+03	1.93E+03	1.85E+03	1.77E+03	1.33E+03	9.97E+02	5.60E+02	3.15E+02	1.33E+02	1.33E+02
PU240	8.42E+02	7.57E+02	6.13E+02	4.96E+02	4.23E+02	3.61E+02	1.25E+02	4.33E+01	5.19E+00	6.23E-01	2.59E-02	2.59E-02
PU241	6.48E-05	5.98E-05	5.08E-05	4.31E-05	3.82E-05	3.38E-05	1.49E-05	6.61E-06	1.29E-06	2.53E-07	2.20E-08	2.20E-08
PU242	1.28E+02	1.28E+02	1.28E+02	1.27E+02	1.27E+02	1.26E+02	1.24E+02	1.22E+02	1.18E+02	1.14E+02	1.08E+02	1.08E+02
PU243	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.70E-15	4.69E-15	4.69E-15	4.69E-15	4.68E-15	4.68E-15
PU244	2.02E-07	2.25E-07	2.71E-07	3.16E-07	3.50E-07	3.84E-07	6.08E-07	8.27E-07	1.25E-06	1.66E-06	2.24E-06	2.24E-06
AM241	9.80E+00	1.97E+00	8.14E-02	4.58E-03	1.49E-03	1.08E-03	4.49E-04	1.98E-04	3.89E-05	7.61E-06	6.59E-07	6.59E-07
AM242M	2.14E-10	2.24E-12	2.46E-16	2.70E-20	2.90E-23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AM242	2.56E-15	2.69E-17	2.95E-21	3.23E-25	3.47E-28	3.72E-31	0.0	0.0	0.0	0.0	0.0	0.0
AM243	4.44E-04	4.04E-04	3.35E-04	2.78E-04	2.41E-04	2.09E-04	8.19E-05	3.21E-05	4.96E-06	8.10E-07	1.06E-07	1.06E-07
CM242	5.18E-13	5.43E-15	5.97E-19	6.55E-23	7.02E-26	7.53E-29	0.0	0.0	0.0	0.0	0.0	0.0
CM243	1.14E-27	3.15E-38	2.39E-59	1.82E-80	2.63E-96	3.80E-112	0.0	0.0	0.0	0.0	0.0	0.0
CM244	1.74E-33	4.20E-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CM245	3.82E-02	3.52E-02	2.99E-02	2.54E-02	2.25E-02	1.99E-02	8.81E-03	3.90E-03	7.63E-04	1.49E-04	1.29E-05	1.29E-05
CM246	6.94E-03	5.99E-03	4.47E-03	3.34E-03	2.68E-03	2.15E-03	4.97E-04	1.15E-04	6.13E-06	3.28E-07	4.05E-09	4.05E-09
CM247	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	1.29E-04	1.29E-04	1.29E-04	1.29E-04
CM248	1.23E-05	1.22E-05	1.22E-05	1.21E-05	1.21E-05	1.21E-05	1.18E-05	1.16E-05	1.11E-05	1.07E-05	1.00E-05	1.00E-05
TOTAL	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.52E+06	2.53E+06	2.53E+06	2.53E+06	2.53E+06	2.53E+06

ACTINIDES

 NUCLIDE CONCENTRATIONS, GRAMS
 BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y
HE 4	2.59E+03	3.22E+03	4.30E+03	5.24E+03	5.86E+03	6.43E+03	9.20E+03	1.09E+04	1.30E+04	1.41E+04	1.51E+04
TL207	3.49E-09	4.02E-09	5.05E-09	6.06E-09	6.79E-09	7.51E-09	1.19E-08	1.56E-08	2.15E-08	2.56E-08	2.96E-08
TL208	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09
TL209	1.12E-12	2.84E-12	8.50E-12	1.67E-11	2.42E-11	3.27E-11	1.06E-10	1.92E-10	3.67E-10	5.32E-10	7.51E-10
PB206	2.68E+00	4.11E+00	7.90E+00	1.33E+01	1.86E+01	2.50E+01	9.55E+01	2.12E+02	5.79E+02	1.09E+03	2.09E+03
PB207	4.50E-01	7.37E-01	1.43E+00	2.28E+00	3.02E+00	3.84E+00	1.13E+01	2.19E+01	5.06E+01	8.69E+01	1.51E+02
PB208	5.23E+00	7.73E+00	1.27E+01	1.78E+01	2.15E+01	2.53E+01	5.03E+01	7.54E+01	1.26E+02	1.76E+02	2.51E+02
PB209	4.60E-09	1.16E-08	3.48E-08	6.82E-08	9.90E-08	1.34E-07	4.33E-07	7.85E-07	1.50E-06	2.17E-06	3.07E-06
PB210	4.39E-02	5.09E-02	7.43E-02	1.04E-01	1.27E-01	1.51E-01	3.09E-01	4.54E-01	7.47E-01	9.66E-01	1.23E+00
PB211	2.70E-08	3.11E-08	3.91E-08	4.69E-08	5.25E-08	5.81E-08	9.20E-08	1.21E-07	1.66E-07	1.98E-07	2.29E-07
PB212	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06
PB214	1.02E-07	1.19E-07	1.73E-07	2.41E-07	2.96E-07	3.52E-07	7.18E-07	1.06E-06	1.74E-06	2.25E-06	2.86E-06
BI209	4.98E-03	1.94E-02	1.01E-01	2.88E-01	5.18E-01	8.38E-01	5.91E+00	1.71E+01	5.93E+01	1.27E+02	2.73E+02
BI210	2.70E-05	3.13E-05	4.57E-05	6.38E-05	7.83E-05	9.31E-05	1.90E-04	2.79E-04	4.60E-04	5.94E-04	7.57E-04
BI211	1.59E-09	1.83E-09	2.31E-09	2.76E-09	3.10E-09	3.43E-09	5.43E-09	7.14E-09	9.81E-09	1.17E-08	1.35E-08
BI212	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07
BI213	1.08E-09	2.73E-09	8.17E-09	1.60E-08	2.33E-08	3.14E-08	1.02E-07	1.84E-07	3.53E-07	5.11E-07	7.22E-07
BI214	7.59E-08	8.80E-08	1.28E-07	1.79E-07	2.20E-07	2.62E-07	5.34E-07	7.85E-07	1.29E-06	1.67E-06	2.13E-06
PO210	7.46E-04	8.65E-04	1.26E-03	1.76E-03	2.16E-03	2.57E-03	5.24E-03	7.72E-03	1.27E-02	1.64E-02	2.09E-02
PO211	2.09E-14	2.41E-14	3.03E-14	3.63E-14	4.08E-14	4.51E-14	7.14E-14	9.39E-14	1.29E-13	1.54E-13	1.78E-13
PO212	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17
PO213	1.62E-18	4.10E-18	1.23E-17	2.40E-17	3.49E-17	4.71E-17	1.52E-16	2.77E-16	5.30E-16	7.66E-16	1.08E-15
PO214	1.04E-14	1.21E-14	1.77E-14	2.47E-14	3.03E-14	3.60E-14	7.34E-14	1.08E-13	1.78E-13	2.30E-13	2.93E-13
PO215	2.26E-14	2.60E-14	3.27E-14	3.92E-14	4.40E-14	4.86E-14	7.71E-14	1.01E-13	1.39E-13	1.66E-13	1.92E-13
PO216	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11
PO218	1.18E-08	1.37E-08	2.01E-08	2.80E-08	3.44E-08	4.08E-08	8.33E-08	1.23E-07	2.02E-07	2.61E-07	3.32E-07
AT217	1.30E-14	3.28E-14	9.82E-14	1.93E-13	2.79E-13	3.78E-13	1.22E-12	2.22E-12	4.24E-12	6.14E-12	8.67E-12
RN219	5.12E-11	5.90E-11	7.42E-11	8.89E-11	9.97E-11	1.10E-10	1.75E-10	2.30E-10	3.16E-10	3.76E-10	4.34E-10
RN220	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09
RN222	2.18E-05	2.53E-05	3.69E-05	5.15E-05	6.32E-05	7.51E-05	1.53E-04	2.25E-04	3.71E-04	4.79E-04	6.10E-04
FR221	1.18E-10	2.98E-10	8.91E-10	1.75E-09	2.54E-09	3.43E-09	1.11E-08	2.01E-08	3.85E-08	5.57E-08	7.88E-08
FR223	2.41E-10	2.78E-10	3.49E-10	4.19E-10	4.69E-10	5.19E-10	8.22E-10	1.08E-09	1.49E-09	1.77E-09	2.05E-09
RA223	1.30E-05	1.50E-05	1.88E-05	2.26E-05	2.53E-05	2.80E-05	4.44E-05	5.83E-05	8.02E-05	9.56E-05	1.10E-04
RA224	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05
RA225	5.33E-07	1.35E-06	4.03E-06	7.91E-06	1.15E-05	1.55E-05	5.01E-05	9.10E-05	1.74E-04	2.52E-04	3.56E-04
RA226	3.39E+00	3.93E+00	5.74E+00	8.01E+00	9.83E+00	1.17E+01	2.38E+01	3.51E+01	5.77E+01	7.46E+01	9.50E+01
RA228	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02
AC225	3.60E-07	9.11E-07	2.72E-06	5.34E-06	7.75E-06	1.05E-05	3.39E-05	6.15E-05	1.18E-04	1.70E-04	2.41E-04
AC227	9.21E-03	1.06E-02	1.33E-02	1.60E-02	1.79E-02	1.98E-02	3.14E-02	4.13E-02	5.68E-02	6.77E-02	7.81E-02
AC228	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06
TH227	2.14E-05	2.46E-05	3.09E-05	3.71E-05	4.16E-05	4.60E-05	7.29E-05	9.58E-05	1.32E-04	1.57E-04	1.81E-04
TH228	7.58E-03	7.58E-03	7.58E-03	7.58E-03	7.58E-03	7.58E-03	7.58E-03	7.58E-03	7.58E-03	7.58E-03	7.58E-03
TH229	9.83E-02	2.48E-01	7.43E-01	1.46E+00	2.11E+00	2.86E+00	9.24E+00	1.68E+01	3.21E+01	4.64E+01	6.56E+01
TH230	2.06E+02	2.72E+02	4.00E+02	5.27E+02	6.20E+02	7.13E+02	1.30E+03	1.84E+03	2.79E+03	3.60E+03	4.59E+03
TH231	1.03E-05	1.04E-05	1.05E-05	1.06E-05	1.07E-05	1.07E-05	1.12E-05	1.15E-05	1.19E-05	1.21E-05	1.23E-05
TH232	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07
TH234	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03
PA231	1.41E+01	1.62E+01	2.04E+01	2.45E+01	2.74E+01	3.03E+01	4.81E+01	6.32E+01	8.69E+01	1.04E+02	1.20E+02
PA233	2.05E-03	2.11E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.11E-03	2.11E-03	2.09E-03	2.08E-03	2.06E-03

PA234M	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07
PA234	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07
U 232	5.41E-13	3.57E-17	1.56E-25	6.79E-34	3.64E-40	1.95E-46	0.0	0.0	0.0	0.0	0.0	0.0
U 233	2.90E+01	4.84E+01	8.75E+01	1.26E+02	1.55E+02	1.84E+02	3.70E+02	5.48E+02	8.79E+02	1.18E+03	1.58E+03	
U 234	2.41E+04	2.42E+04	2.42E+04	2.42E+04	2.42E+04	2.43E+04	2.44E+04	2.45E+04	2.48E+04	2.50E+04	2.53E+04	
U 235	2.53E+06	2.55E+06	2.58E+06	2.60E+06	2.62E+06	2.64E+06	2.74E+06	2.82E+06	2.92E+06	2.98E+06	3.03E+06	
U 236	2.27E+05	2.47E+05	2.81E+05	3.08E+05	3.25E+05	3.40E+05	3.96E+05	4.15E+05	4.23E+05	4.24E+05	4.24E+05	
U 237	4.93E-10	4.54E-10	3.86E-10	3.28E-10	2.90E-10	2.57E-10	1.14E-10	5.03E-11	9.84E-12	1.93E-12	1.67E-13	
U 238	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	
U 240	9.44E-16	1.05E-15	1.26E-15	1.48E-15	1.64E-15	1.79E-15	2.84E-15	3.86E-15	5.84E-15	7.75E-15	1.05E-14	
NP237	6.03E+04	6.21E+04	6.25E+04	6.25E+04	6.25E+04	6.24E+04	6.22E+04	6.20E+04	6.16E+04	6.13E+04	6.07E+04	
NP238	9.72E-15	1.02E-16	1.12E-20	1.23E-24	1.32E-27	1.41E-30	0.0	0.0	0.0	0.0	0.0	
NP239	9.27E-08	8.44E-08	6.99E-08	5.80E-08	5.04E-08	4.37E-08	1.71E-08	6.70E-09	1.04E-09	1.69E-10	2.21E-11	
NP240M	8.25E-18	9.19E-18	1.11E-17	1.29E-17	1.43E-17	1.57E-17	2.48E-17	3.38E-17	5.11E-17	6.78E-17	9.15E-17	
PU238	2.83E-03	1.05E-06	2.12E-13	7.31E-18	3.35E-21	3.56E-24	0.0	0.0	0.0	0.0	0.0	
PU239	5.34E+05	5.18E+05	4.89E+05	4.62E+05	4.43E+05	4.24E+05	3.18E+05	2.38E+05	1.34E+05	7.53E+04	3.17E+04	
PU240	2.02E+05	1.82E+05	1.47E+05	1.19E+05	1.01E+05	8.65E+04	3.00E+04	1.04E+04	1.25E+03	1.50E+02	6.22E+00	
PU241	1.56E-02	1.44E-02	1.22E-02	1.04E-02	9.20E-03	8.14E-03	3.60E-03	1.59E-03	3.12E-04	6.11E-05	5.29E-06	
PU242	3.10E+04	3.10E+04	3.09E+04	3.08E+04	3.07E+04	3.06E+04	3.01E+04	2.95E+04	2.85E+04	2.75E+04	2.60E+04	
PU243	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	1.14E-12	
PU244	4.93E-05	5.49E-05	6.61E-05	7.72E-05	8.55E-05	9.38E-05	1.48E-04	2.02E-04	3.05E-04	4.05E-04	5.47E-04	
AM241	2.36E+03	4.76E+02	1.96E+01	1.10E+00	3.58E-01	2.61E-01	1.08E-01	4.78E-02	9.36E-03	1.83E-03	1.59E-04	
AM242M	5.19E-08	5.43E-10	5.96E-14	6.54E-18	7.02E-21	0.0	0.0	0.0	0.0	0.0	0.0	
AM242	6.20E-13	6.50E-15	7.13E-19	7.82E-23	8.40E-26	9.01E-29	0.0	0.0	0.0	0.0	0.0	
AM243	1.08E-01	9.82E-02	8.14E-02	6.75E-02	5.86E-02	5.09E-02	1.99E-02	7.80E-03	1.20E-03	1.97E-04	2.57E-05	
CM242	1.25E-10	1.31E-12	1.45E-16	1.59E-20	1.70E-23	1.82E-26	0.0	0.0	0.0	0.0	0.0	
CM243	2.78E-25	7.66E-36	5.82E-57	4.42E-78	6.39E-94	9.24-110	0.0	0.0	0.0	0.0	0.0	
CM244	4.26E-31	1.02E-47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
CM245	9.36E+00	8.63E+00	7.33E+00	6.23E+00	5.51E+00	4.88E+00	2.16E+00	9.55E-01	1.87E-01	3.66E-02	3.17E-03	
CM246	1.71E+00	1.47E+00	1.10E+00	8.21E-01	6.59E-01	5.29E-01	1.22E-01	2.82E-02	1.51E-03	8.06E-05	9.95E-07	
CM247	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.19E-02	3.19E-02	
CM248	3.04E-03	3.03E-03	3.02E-03	3.01E-03	3.00E-03	2.99E-03	2.93E-03	2.87E-03	2.75E-03	2.64E-03	2.49E-03	
TOTAL	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	

ACTINIDES

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y
TL207	2.46E+10	2.83E+10	3.56E+10	4.27E+10	4.79E+10	5.29E+10	8.38E+10	1.10E+11	1.52E+11	1.81E+11	2.09E+11
TL208	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10
TL209	1.70E+07	4.30E+07	1.29E+08	2.53E+08	3.66E+08	4.95E+08	1.60E+09	2.90E+09	5.56E+09	8.05E+09	1.14E+10
PB209	7.74E+08	1.96E+09	5.85E+09	1.15E+10	1.66E+10	2.25E+10	7.28E+10	1.32E+11	2.53E+11	3.66E+11	5.17E+11
PB210	1.24E+11	1.44E+11	2.10E+11	2.93E+11	3.60E+11	4.28E+11	8.72E+11	1.28E+12	2.11E+12	2.73E+12	3.48E+12
PB211	2.47E+10	2.84E+10	3.57E+10	4.28E+10	4.80E+10	5.31E+10	8.41E+10	1.11E+11	1.52E+11	1.81E+11	2.09E+11
PB212	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
PB214	1.24E+11	1.44E+11	2.10E+11	2.93E+11	3.60E+11	4.28E+11	8.72E+11	1.28E+12	2.11E+12	2.73E+12	3.48E+12
BI210	1.24E+11	1.44E+11	2.10E+11	2.93E+11	3.60E+11	4.28E+11	8.72E+11	1.28E+12	2.11E+12	2.73E+12	3.48E+12
BI211	2.47E+10	2.84E+10	3.57E+10	4.28E+10	4.80E+10	5.31E+10	8.41E+10	1.11E+11	1.52E+11	1.81E+11	2.09E+11
BI212	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
BI213	7.74E+08	1.96E+09	5.85E+09	1.15E+10	1.66E+10	2.25E+10	7.28E+10	1.32E+11	2.53E+11	3.66E+11	5.17E+11
BI214	1.24E+11	1.44E+11	2.10E+11	2.93E+11	3.60E+11	4.28E+11	8.72E+11	1.28E+12	2.11E+12	2.73E+12	3.48E+12
PO210	1.24E+11	1.44E+11	2.10E+11	2.93E+11	3.60E+11	4.28E+11	8.72E+11	1.28E+12	2.11E+12	2.73E+12	3.48E+12
PO211	7.40E+07	8.52E+07	1.07E+08	1.28E+08	1.44E+08	1.59E+08	2.52E+08	3.32E+08	4.56E+08	5.44E+08	6.28E+08
PO212	1.47E+11	1.47E+11	1.47E+11	1.47E+11	1.47E+11	1.47E+11	1.47E+11	1.47E+11	1.47E+11	1.47E+11	1.47E+11
PO213	7.57E+08	1.91E+09	5.72E+09	1.12E+10	1.63E+10	2.20E+10	7.12E+10	1.28E+11	2.47E+11	3.58E+11	5.05E+11
PO214	1.24E+11	1.44E+11	2.10E+11	2.93E+11	3.60E+11	4.28E+11	8.72E+11	1.28E+12	2.11E+12	2.73E+12	3.48E+12
PO215	2.47E+10	2.84E+10	3.57E+10	4.28E+10	4.80E+10	5.31E+10	8.41E+10	1.11E+11	1.52E+11	1.81E+11	2.09E+11
PO216	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
PO218	1.24E+11	1.44E+11	2.10E+11	2.93E+11	3.60E+11	4.28E+11	8.72E+11	1.28E+12	2.11E+12	2.73E+12	3.48E+12
AT217	7.74E+08	1.96E+09	5.85E+09	1.15E+10	1.66E+10	2.25E+10	7.28E+10	1.32E+11	2.53E+11	3.66E+11	5.17E+11
RN219	2.47E+10	2.84E+10	3.57E+10	4.28E+10	4.80E+10	5.31E+10	8.41E+10	1.11E+11	1.52E+11	1.81E+11	2.09E+11
RN220	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
RN222	1.24E+11	1.44E+11	2.10E+11	2.93E+11	3.60E+11	4.28E+11	8.72E+11	1.28E+12	2.11E+12	2.73E+12	3.48E+12
FR221	7.74E+08	1.96E+09	5.85E+09	1.15E+10	1.66E+10	2.25E+10	7.28E+10	1.32E+11	2.53E+11	3.66E+11	5.17E+11
FR223	3.45E+08	3.98E+08	5.00E+08	5.99E+08	6.72E+08	7.43E+08	1.18E+09	1.55E+09	2.13E+09	2.54E+09	2.93E+09
RA223	2.47E+10	2.84E+10	3.57E+10	4.28E+10	4.80E+10	5.31E+10	8.41E+10	1.11E+11	1.52E+11	1.81E+11	2.09E+11
RA224	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
RA225	7.74E+08	1.96E+09	5.85E+09	1.15E+10	1.66E+10	2.25E+10	7.28E+10	1.32E+11	2.53E+11	3.66E+11	5.17E+11
RA226	1.24E+11	1.44E+11	2.10E+11	2.93E+11	3.60E+11	4.28E+11	8.72E+11	1.28E+12	2.11E+12	2.73E+12	3.48E+12
RA228	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
AC225	7.74E+08	1.96E+09	5.85E+09	1.15E+10	1.66E+10	2.25E+10	7.28E+10	1.32E+11	2.53E+11	3.66E+11	5.17E+11
AC227	2.47E+10	2.84E+10	3.57E+10	4.28E+10	4.80E+10	5.31E+10	8.41E+10	1.11E+11	1.52E+11	1.81E+11	2.09E+11
AC228	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
TH227	2.43E+10	2.80E+10	3.52E+10	4.22E+10	4.73E+10	5.23E+10	8.29E+10	1.09E+11	1.50E+11	1.79E+11	2.06E+11
TH228	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
TH229	7.74E+08	1.96E+09	5.85E+09	1.15E+10	1.66E+10	2.25E+10	7.28E+10	1.32E+11	2.53E+11	3.66E+11	5.17E+11
TH230	1.54E+11	2.03E+11	2.99E+11	3.94E+11	4.63E+11	5.32E+11	9.71E+11	1.37E+12	2.09E+12	2.69E+12	3.43E+12
TH231	2.03E+11	2.04E+11	2.06E+11	2.08E+11	2.10E+11	2.11E+11	2.20E+11	2.26E+11	2.34E+11	2.39E+11	2.42E+11
TH232	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
TH234	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12
PA231	2.46E+10	2.84E+10	3.57E+10	4.28E+10	4.80E+10	5.31E+10	8.41E+10	1.11E+11	1.52E+11	1.81E+11	2.09E+11
PA233	1.57E+12	1.62E+12	1.63E+12	1.63E+12	1.63E+12	1.63E+12	1.62E+12	1.62E+12	1.61E+12	1.60E+12	1.58E+12
PA234M	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12
PA234	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09
U 232	4.28E-01	2.83E-05	1.23E-13	5.38E-22	2.89E-28	1.55E-34	0.0	0.0	0.0	0.0	0.0
U 233	1.04E+10	1.73E+10	3.14E+10	4.53E+10	5.57E+10	6.59E+10	1.33E+11	1.96E+11	3.15E+11	4.23E+11	5.66E+11
U 234	5.59E+12	5.59E+12	5.60E+12	5.60E+12	5.61E+12	5.61E+12	5.64E+12	5.67E+12	5.73E+12	5.78E+12	5.86E+12

U 235	2.03E+11	2.04E+11	2.06E+11	2.08E+11	2.10E+11	2.11E+11	2.20E+11	2.26E+11	2.34E+11	2.39E+11	2.42E+11
U 236	5.43E+11	5.90E+11	6.72E+11	7.38E+11	7.79E+11	8.14E+11	9.47E+11	9.93E+11	1.01E+12	1.02E+12	1.02E+12
U 237	1.49E+06	1.37E+06	1.17E+06	9.91E+05	8.77E+05	7.76E+05	3.43E+05	1.52E+05	2.97E+04	5.82E+03	5.04E+02
U 238	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12
U 240	3.24E+01	3.60E+01	4.33E+01	5.06E+01	5.61E+01	6.15E+01	9.73E+01	1.32E+02	2.00E+02	2.66E+02	3.59E+02
NP237	1.57E+12	1.62E+12	1.63E+12	1.63E+12	1.63E+12	1.63E+12	1.62E+12	1.62E+12	1.61E+12	1.60E+12	1.58E+12
NP238	9.33E+01	9.77E-01	1.07E-04	1.18E-08	1.26E-11	1.35E-14	0.0	0.0	0.0	0.0	0.0
NP239	7.96E+08	7.25E+08	6.01E+08	4.98E+08	4.32E+08	3.76E+08	1.47E+08	5.75E+07	8.89E+06	1.45E+06	1.90E+05
NP240M	3.24E+01	3.60E+01	4.33E+01	5.06E+01	5.61E+01	6.15E+01	9.73E+01	1.32E+02	2.00E+02	2.66E+02	3.59E+02
PU238	1.80E+09	6.67E+05	1.34E-01	4.63E-06	2.13E-09	2.26E-12	0.0	0.0	0.0	0.0	0.0
PU239	1.23E+15	1.19E+15	1.13E+15	1.06E+15	1.02E+15	9.75E+14	7.31E+14	5.48E+14	3.08E+14	1.73E+14	7.30E+13
PU240	1.70E+15	1.53E+15	1.24E+15	1.00E+15	8.56E+14	7.30E+14	2.53E+14	8.76E+13	1.05E+13	1.26E+12	5.25E+10
PU241	5.96E+10	5.49E+10	4.67E+10	3.96E+10	3.51E+10	3.10E+10	1.37E+10	6.08E+09	1.19E+09	2.33E+08	2.02E+07
PU242	4.39E+12	4.38E+12	4.36E+12	4.35E+12	4.34E+12	4.32E+12	4.25E+12	4.17E+12	4.03E+12	3.88E+12	3.68E+12
PU243	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05
PU244	3.24E+01	3.61E+01	4.34E+01	5.07E+01	5.61E+01	6.16E+01	9.74E+01	1.32E+02	2.01E+02	2.66E+02	3.59E+02
AM241	3.00E+14	6.04E+13	2.49E+12	1.40E+11	4.55E+10	3.31E+10	1.37E+10	6.08E+09	1.19E+09	2.33E+08	2.02E+07
AM242M	1.87E+04	1.95E+02	2.14E-02	2.35E-06	2.53E-09	0.0	0.0	0.0	0.0	0.0	0.0
AM242	1.86E+04	1.94E+02	2.13E-02	2.34E-06	2.51E-09	2.70E-12	0.0	0.0	0.0	0.0	0.0
AM243	7.96E+08	7.25E+08	6.01E+08	4.98E+08	4.32E+08	3.76E+08	1.47E+08	5.75E+07	8.89E+06	1.45E+06	1.90E+05
CM242	1.54E+04	1.61E+02	1.77E-02	1.94E-06	2.08E-09	2.23E-12	0.0	0.0	0.0	0.0	0.0
CM243	5.32E-13	1.46E-23	1.11E-44	8.44E-66	1.22E-81	1.76E-97	0.0	0.0	0.0	0.0	0.0
CM244	1.27E-18	3.07E-35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CM245	5.95E+10	5.48E+10	4.66E+10	3.96E+10	3.50E+10	3.10E+10	1.37E+10	6.07E+09	1.19E+09	2.33E+08	2.01E+07
CM246	1.94E+10	1.68E+10	1.25E+10	9.33E+09	7.49E+09	6.01E+09	1.39E+09	3.21E+08	1.72E+07	9.17E+05	1.13E+04
CM247	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05	1.10E+05
CM248	4.78E+05	4.77E+05	4.75E+05	4.73E+05	4.72E+05	4.70E+05	4.61E+05	4.52E+05	4.34E+05	4.16E+05	3.91E+05
TOTAL	3.27E+15	2.82E+15	2.41E+15	2.11E+15	1.92E+15	1.75E+15	1.03E+15	6.88E+14	3.80E+14	2.44E+14	1.51E+14

ACTINIDES

NUCLIDE THERMAL POWER, WATTS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y
TL207	1.95E-03	2.25E-03	2.83E-03	3.39E-03	3.80E-03	4.20E-03	6.65E-03	8.75E-03	1.20E-02	1.43E-02	1.66E-02
TL208	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02
TL209	7.64E-06	1.93E-05	5.78E-05	1.13E-04	1.64E-04	2.22E-04	7.19E-04	1.30E-03	2.50E-03	3.61E-03	5.11E-03
PB209	2.41E-05	6.08E-05	1.82E-04	3.57E-04	5.17E-04	6.99E-04	2.26E-03	4.10E-03	7.86E-03	1.14E-02	1.61E-02
PB210	7.77E-04	9.01E-04	1.32E-03	1.84E-03	2.25E-03	2.68E-03	5.46E-03	8.04E-03	1.32E-02	1.71E-02	2.18E-02
PB211	2.00E-03	2.30E-03	2.89E-03	3.47E-03	3.89E-03	4.30E-03	6.81E-03	8.96E-03	1.23E-02	1.47E-02	1.69E-02
PB212	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02
PB214	1.07E-02	1.24E-02	1.81E-02	2.53E-02	3.10E-02	3.68E-02	7.52E-02	1.11E-01	1.82E-01	2.35E-01	3.00E-01
BI210	7.73E-03	8.96E-03	1.31E-02	1.83E-02	2.24E-02	2.66E-02	5.43E-02	8.00E-02	1.32E-01	1.70E-01	2.17E-01
BI211	2.66E-02	3.06E-02	3.85E-02	4.62E-02	5.18E-02	5.72E-02	9.07E-02	1.19E-01	1.64E-01	1.95E-01	2.26E-01
BI212	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01
BI213	8.79E-05	2.22E-04	6.65E-04	1.30E-03	1.89E-03	2.56E-03	8.27E-03	1.50E-02	2.87E-02	4.16E-02	5.87E-02
BI214	4.30E-02	4.98E-02	7.27E-02	1.01E-01	1.25E-01	1.48E-01	3.02E-01	4.44E-01	7.31E-01	9.45E-01	1.20E+00
PO210	1.07E-01	1.25E-01	1.82E-01	2.54E-01	3.12E-01	3.70E-01	7.55E-01	1.11E+00	1.83E+00	2.36E+00	3.01E+00
PO211	9.00E-05	1.04E-04	1.30E-04	1.56E-04	1.75E-04	1.94E-04	3.07E-04	4.04E-04	5.55E-04	6.61E-04	7.64E-04
PO212	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01
PO213	1.03E-03	2.62E-03	7.82E-03	1.54E-02	2.23E-02	3.01E-02	9.73E-02	1.77E-01	3.38E-01	4.89E-01	6.91E-01
PO214	1.56E-01	1.81E-01	2.64E-01	3.68E-01	4.51E-01	5.37E-01	1.09E+00	1.61E+00	2.65E+00	3.42E+00	4.36E+00
PO215	2.97E-02	3.42E-02	4.31E-02	5.16E-02	5.79E-02	6.40E-02	1.01E-01	1.33E-01	1.83E-01	2.19E-01	2.52E-01
PO216	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01
PO218	1.21E-01	1.41E-01	2.06E-01	2.87E-01	3.52E-01	4.19E-01	8.54E-01	1.26E+00	2.07E+00	2.67E+00	3.40E+00
AT217	8.93E-04	2.26E-03	6.75E-03	1.32E-02	1.92E-02	2.59E-02	8.39E-02	1.52E-01	2.92E-01	4.22E-01	5.96E-01
RN219	2.74E-02	3.16E-02	3.97E-02	4.76E-02	5.34E-02	5.91E-02	9.36E-02	1.23E-01	1.69E-01	2.02E-01	2.33E-01
RN220	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01
RN222	1.11E-01	1.29E-01	1.88E-01	2.62E-01	3.22E-01	3.83E-01	7.81E-01	1.15E+00	1.89E+00	2.44E+00	3.11E+00
FR221	8.01E-04	2.02E-03	6.05E-03	1.19E-02	1.72E-02	2.33E-02	7.53E-02	1.37E-01	2.62E-01	3.78E-01	5.35E-01
FR223	2.42E-05	2.79E-05	3.51E-05	4.21E-05	4.72E-05	5.22E-05	8.26E-05	1.09E-04	1.49E-04	1.78E-04	2.06E-04
RA223	2.36E-02	2.72E-02	3.42E-02	4.10E-02	4.60E-02	5.09E-02	8.06E-02	1.06E-01	1.46E-01	1.74E-01	2.00E-01
RA224	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01
RA225	1.47E-05	3.71E-05	1.11E-04	2.18E-04	3.15E-04	4.26E-04	1.38E-03	2.50E-03	4.79E-03	6.93E-03	9.80E-03
RA226	9.68E-02	1.12E-01	1.64E-01	2.29E-01	2.81E-01	3.34E-01	6.80E-01	1.00E+00	1.65E+00	2.13E+00	2.71E+00
RA228	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04
AC225	7.36E-04	1.86E-03	5.56E-03	1.09E-02	1.58E-02	2.14E-02	6.92E-02	1.26E-01	2.40E-01	3.48E-01	4.91E-01
AC227	3.23E-04	3.72E-04	4.67E-04	5.60E-04	6.28E-04	6.95E-04	1.10E-03	1.45E-03	1.99E-03	2.37E-03	2.74E-03
AC228	5.37E-02	5.37E-02	5.37E-02	5.37E-02	5.37E-02	5.37E-02	5.37E-02	5.37E-02	5.37E-02	5.37E-02	5.37E-02
TH227	2.39E-02	2.76E-02	3.47E-02	4.16E-02	4.66E-02	5.15E-02	8.17E-02	1.07E-01	1.48E-01	1.76E-01	2.03E-01
TH228	2.03E-01	2.03E-01	2.03E-01	2.03E-01	2.03E-01	2.03E-01	2.03E-01	2.03E-01	2.03E-01	2.03E-01	2.03E-01
TH229	6.41E-04	1.62E-03	4.84E-03	9.50E-03	1.38E-02	1.86E-02	6.03E-02	1.09E-01	2.09E-01	3.03E-01	4.28E-01
TH230	1.18E-01	1.55E-01	2.29E-01	3.01E-01	3.54E-01	4.07E-01	7.42E-01	1.05E+00	1.59E+00	2.06E+00	2.62E+00
TH231	3.07E-03	3.09E-03	3.13E-03	3.16E-03	3.18E-03	3.20E-03	3.33E-03	3.43E-03	3.55E-03	3.62E-03	3.67E-03
TH232	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01
TH234	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02
PA231	2.03E-02	2.34E-02	2.94E-02	3.53E-02	3.96E-02	4.38E-02	6.93E-02	9.12E-02	1.25E-01	1.49E-01	1.73E-01
PA233	9.65E-02	9.94E-02	1.00E-01	1.00E-01	1.00E-01	1.00E-01	9.96E-02	9.93E-02	9.87E-02	9.80E-02	9.71E-02
PA234M	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01
PA234	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03
U 232	3.72E-13	2.45E-17	1.07E-25	4.66E-34	2.50E-40	1.34E-46	0.0	0.0	0.0	0.0	0.0
U 233	8.17E-03	1.36E-02	2.47E-02	3.56E-02	4.38E-02	5.19E-02	1.04E-01	1.54E-01	2.48E-01	3.33E-01	4.45E-01
U 234	4.35E+00	4.35E+00	4.35E+00	4.36E+00	4.36E+00	4.36E+00	4.39E+00	4.41E+00	4.46E+00	4.50E+00	4.56E+00

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Zeitraum 3000 a - 10⁹ a

U 235	1.52E-01	1.53E-01	1.54E-01	1.56E-01	1.57E-01	1.58E-01	1.65E-01	1.69E-01	1.75E-01	1.79E-01	1.81E-01
U 236	3.97E-01	4.32E-01	4.92E-01	5.40E-01	5.71E-01	5.96E-01	6.94E-01	7.27E-01	7.43E-01	7.44E-01	7.44E-01
U 237	7.62E-08	7.02E-08	5.97E-08	5.07E-08	4.48E-08	3.97E-08	1.76E-08	7.77E-09	1.52E-09	2.98E-10	2.58E-11
U 238	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.59E+00
U 240	7.17E-13	7.99E-13	9.61E-13	1.12E-12	1.24E-12	1.36E-12	2.16E-12	2.93E-12	4.44E-12	5.89E-12	7.95E-12
NP237	1.25E+00	1.29E+00	1.30E+00	1.30E+00	1.29E+00	1.29E+00	1.29E+00	1.29E+00	1.28E+00	1.27E+00	1.26E+00
NP238	1.21E-11	1.26E-13	1.39E-17	1.52E-21	1.64E-24	1.75E-27	0.0	0.0	0.0	0.0	0.0
NP239	5.20E-05	4.73E-05	3.92E-05	3.25E-05	2.83E-05	2.45E-05	9.60E-06	3.76E-06	5.81E-07	9.49E-08	1.24E-08
NP240M	5.07E-12	5.64E-12	6.79E-12	7.93E-12	8.78E-12	9.63E-12	1.52E-11	2.07E-11	3.14E-11	4.16E-11	5.62E-11
PU238	1.61E-03	5.98E-07	1.20E-13	4.15E-18	1.90E-21	2.02E-24	0.0	0.0	0.0	0.0	0.0
PU239	1.03E+03	1.00E+03	9.46E+02	8.93E+02	8.55E+02	8.19E+02	6.14E+02	4.61E+02	2.59E+02	1.46E+02	6.13E+01
PU240	1.44E+03	1.29E+03	1.04E+03	8.45E+02	7.21E+02	6.15E+02	2.13E+02	7.38E+01	8.85E+00	1.06E+00	4.42E-02
PU241	4.96E-05	4.58E-05	3.89E-05	3.30E-05	2.92E-05	2.59E-05	1.14E-05	5.06E-06	9.91E-07	1.94E-07	1.68E-08
PU242	3.50E+00	3.50E+00	3.48E+00	3.47E+00	3.46E+00	3.45E+00	3.39E+00	3.33E+00	3.21E+00	3.10E+00	2.94E+00
PU243	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.43E-09	3.42E-09	3.42E-09	3.42E-09
PU244	2.54E-11	2.83E-11	3.40E-11	3.97E-11	4.40E-11	4.83E-11	7.63E-11	1.04E-10	1.57E-10	2.08E-10	2.81E-10
AM241	2.71E+02	5.46E+01	2.25E+00	1.27E-01	4.11E-02	2.99E-02	1.24E-02	5.49E-03	1.07E-03	2.10E-04	1.82E-05
AM242M	1.99E-10	2.09E-12	2.29E-16	2.51E-20	2.70E-23	0.0	0.0	0.0	0.0	0.0	0.0
AM242	5.83E-10	6.11E-12	6.70E-16	7.35E-20	7.90E-23	8.46E-26	0.0	0.0	0.0	0.0	0.0
AM243	6.94E-04	6.31E-04	5.23E-04	4.34E-04	3.77E-04	3.27E-04	1.28E-04	5.01E-05	7.75E-06	1.27E-06	1.65E-07
CM242	1.53E-08	1.60E-10	1.76E-14	1.93E-18	2.07E-21	2.22E-24	0.0	0.0	0.0	0.0	0.0
CM243	5.27E-25	1.45E-35	1.10E-56	8.37E-78	1.21E-93	1.75E-109	0.0	0.0	0.0	0.0	0.0
CM244	1.21E-30	2.90E-47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CM245	5.36E-02	4.94E-02	4.20E-02	3.56E-02	3.15E-02	2.79E-02	1.24E-02	5.46E-03	1.07E-03	2.09E-04	1.81E-05
CM246	1.72E-02	1.48E-02	1.11E-02	8.25E-03	6.63E-03	5.32E-03	1.23E-03	2.84E-04	1.52E-05	8.11E-07	1.00E-08
CM247	9.43E-08	9.43E-08	9.43E-08	9.43E-08	9.43E-08	9.43E-08	9.43E-08	9.42E-08	9.41E-08	9.41E-08	9.39E-08
CM248	1.61E-06	1.61E-06	1.60E-06	1.59E-06	1.59E-06	1.58E-06	1.55E-06	1.52E-06	1.46E-06	1.40E-06	1.32E-06
TOTAL	2.76E+03	2.37E+03	2.01E+03	1.76E+03	1.60E+03	1.45E+03	8.51E+02	5.61E+02	3.00E+02	1.83E+02	1.04E+02

FISSION PRODUCTS

 NUCLIDE CONCENTRATIONS, GRAM ATOMS
 BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y
SE 79	5.77E-01	5.71E-01	5.59E-01	5.47E-01	5.38E-01	5.30E-01	4.76E-01	4.28E-01	3.46E-01	2.79E-01	2.03E-01
BR 79	1.24E-02	1.86E-02	3.06E-02	4.24E-02	5.11E-02	5.96E-02	1.13E-01	1.61E-01	2.44E-01	3.10E-01	3.87E-01
RB 87	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01
SR 87	7.33E-09	1.10E-08	1.83E-08	2.57E-08	3.12E-08	3.67E-08	7.33E-08	1.10E-07	1.83E-07	2.57E-07	3.67E-07
SR 90	2.36E-19	1.09E-29	2.34E-50	5.00E-71	1.57E-86	4.96E-102	0.0	0.0	0.0	0.0	0.0
Y 89	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07
Y 90	5.91E-23	2.74E-33	5.86E-54	1.25E-74	3.95E-90	1.24E-105	0.0	0.0	0.0	0.0	0.0
ZR 90	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02
ZR 93	1.16E+02	1.16E+02	1.15E+02	1.15E+02	1.15E+02	1.15E+02	1.15E+02	1.14E+02	1.13E+02	1.12E+02	1.11E+02
NB 93	1.05E-01	1.57E-01	2.62E-01	3.66E-01	4.44E-01	5.23E-01	1.04E+00	1.56E+00	2.59E+00	3.61E+00	5.12E+00
NB 93M	9.76E-04	9.75E-04	9.75E-04	9.74E-04	9.73E-04	9.72E-04	9.68E-04	9.64E-04	9.55E-04	9.46E-04	9.34E-04
NB 94	6.45E-03	6.23E-03	5.82E-03	5.44E-03	5.17E-03	4.91E-03	3.49E-03	2.48E-03	1.25E-03	6.33E-04	2.27E-04
MO 95	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03
TC 99	4.16E+02	4.15E+02	4.12E+02	4.09E+02	4.07E+02	4.05E+02	3.92E+02	3.80E+02	3.56E+02	3.33E+02	3.02E+02
RU 99	2.72E+00	4.07E+00	6.76E+00	9.43E+00	1.14E+01	1.34E+01	2.64E+01	3.89E+01	6.29E+01	8.53E+01	1.16E+02
RH103	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09
PD106	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01
PD107	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.38E-03	6.37E-03	6.36E-03	6.35E-03	6.34E-03	6.32E-03
PD108	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03
PD110	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08
AG107	1.36E-06	2.04E-06	3.40E-06	4.77E-06	5.79E-06	6.81E-06	1.36E-05	2.04E-05	3.40E-05	4.75E-05	6.77E-05
AG108	9.39E-17	4.01E-19	7.31E-24	1.33E-28	3.72E-32	1.04E-35	0.0	0.0	0.0	0.0	0.0
AG108M	2.98E-08	1.27E-10	2.32E-15	4.22E-20	1.18E-23	3.28E-27	0.0	0.0	0.0	0.0	0.0
CD108	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04
CD110	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03
SN126	2.68E+00	2.67E+00	2.63E+00	2.59E+00	2.57E+00	2.54E+00	2.37E+00	2.21E+00	1.92E+00	1.68E+00	1.36E+00
SB126	1.28E-07	1.27E-07	1.25E-07	1.23E-07	1.22E-07	1.21E-07	1.13E-07	1.05E-07	9.14E-08	7.96E-08	6.47E-08
SB126M	9.70E-10	9.63E-10	9.50E-10	9.37E-10	9.27E-10	9.17E-10	8.56E-10	7.99E-10	6.95E-10	6.05E-10	4.92E-10
TE125	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01
TE126	3.75E-02	5.60E-02	9.27E-02	1.29E-01	1.56E-01	1.82E-01	3.52E-01	5.11E-01	7.97E-01	1.05E+00	1.36E+00
I 129	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.97E+04	2.96E+04	2.96E+04	2.96E+04	2.96E+04	2.95E+04
XE129	2.62E+00	3.93E+00	6.55E+00	9.17E+00	1.11E+01	1.31E+01	2.62E+01	3.93E+01	6.54E+01	9.15E+01	1.31E+02
XE131	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11
CS135	6.60E+01	6.60E+01	6.60E+01	6.59E+01	6.59E+01	6.59E+01	6.57E+01	6.55E+01	6.51E+01	6.47E+01	6.41E+01
CS137	1.95E-18	1.81E-28	1.56E-48	1.35E-68	1.21E-83	1.08E-98	0.0	0.0	0.0	0.0	0.0
BA134	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00
BA135	3.98E-02	5.97E-02	9.95E-02	1.39E-01	1.69E-01	1.99E-01	3.97E-01	5.95E-01	9.88E-01	1.38E+00	1.96E+00
BA137	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02
BA137M	2.99E-25	2.78E-35	2.39E-55	2.06E-75	1.85E-90	1.65E-105	0.0	0.0	0.0	0.0	0.0
CE140	1.56E-13	2.35E-13	3.91E-13	6.47E-13	6.65E-13	7.82E-13	1.56E-12	2.35E-12	3.91E-12	5.47E-12	7.82E-12
ND143	2.51E-08	3.76E-08	6.27E-08	8.78E-08	1.07E-07	1.26E-07	2.51E-07	3.77E-07	6.28E-07	8.79E-07	1.26E-06
ND144	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01
SM147	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00
SM148	4.87E-13	7.32E-13	1.22E-12	1.71E-12	2.08E-12	2.45E-12	4.90E-12	7.35E-12	1.23E-11	1.72E-11	2.45E-11
SM151	1.03E-08	4.67E-12	9.57E-19	1.96E-25	1.89E-30	1.82E-35	0.0	0.0	0.0	0.0	0.0
SM152	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02
EU151	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02
GD152	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02
GD154	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00
GD155	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01

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FISSION PRODUCTS

NUCLIDE CONCENTRATIONS, GRAMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y
SE 79	4.56E+01	4.51E+01	4.41E+01	4.32E+01	4.25E+01	4.18E+01	3.76E+01	3.38E+01	2.73E+01	2.21E+01	1.60E+01
BR 79	9.83E-01	1.47E+00	2.42E+00	3.35E+00	4.04E+00	4.71E+00	8.94E+00	1.28E+01	1.92E+01	2.45E+01	3.05E+01
RB 87	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01
SR 87	6.38E-07	9.57E-07	1.60E-06	2.23E-06	2.71E-06	3.19E-06	6.38E-06	9.57E-06	1.60E-05	2.23E-05	3.19E-05
SR 90	2.12E-17	9.82E-28	2.10E-48	4.50E-69	1.42E-84	4.46E-100	0.0	0.0	0.0	0.0	0.0
Y 89	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05
Y 90	5.32E-21	2.46E-31	5.27E-52	1.13E-72	3.55E-88	1.12E-103	0.0	0.0	0.0	0.0	0.0
ZR 90	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03
ZR 93	1.07E+04	1.07E+04	1.07E+04	1.07E+04	1.07E+04	1.07E+04	1.07E+04	1.06E+04	1.05E+04	1.04E+04	1.03E+04
NB 93	9.73E+00	1.46E+01	2.43E+01	3.40E+01	4.13E+01	4.86E+01	9.70E+01	1.45E+02	2.41E+02	3.36E+02	4.76E+02
NB 93M	9.08E-02	9.07E-02	9.06E-02	9.06E-02	9.05E-02	9.04E-02	9.00E-02	8.96E-02	8.88E-02	8.80E-02	8.68E-02
NB 94	6.06E-01	5.86E-01	5.47E-01	5.11E-01	4.86E-01	4.61E-01	3.28E-01	2.33E-01	1.18E-01	5.95E-02	2.14E-02
MO 95	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01
TC 99	4.12E+04	4.10E+04	4.08E+04	4.05E+04	4.03E+04	4.01E+04	3.88E+04	3.76E+04	3.52E+04	3.30E+04	2.99E+04
RU 99	2.69E+02	4.03E+02	6.69E+02	9.33E+02	1.13E+03	1.33E+03	2.61E+03	3.85E+03	6.22E+03	8.44E+03	1.15E+04
RH103	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07
PD106	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01
PD107	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.83E-01	6.82E-01	6.82E-01	6.81E-01	6.79E-01	6.78E-01	6.76E-01
PD108	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01
PD110	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05
AG107	1.46E-04	2.19E-04	3.64E-04	5.10E-04	6.19E-04	7.28E-04	1.46E-03	2.18E-03	3.63E-03	5.08E-03	7.25E-03
AG108	1.01E-14	4.33E-17	7.90E-22	1.44E-26	4.01E-30	1.12E-33	0.0	0.0	0.0	0.0	0.0
AG108M	3.21E-06	1.37E-08	2.50E-13	4.56E-18	1.27E-21	3.55E-25	0.0	0.0	0.0	0.0	0.0
CD108	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02
CD110	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01
SN126	3.38E+02	3.36E+02	3.31E+02	3.27E+02	3.23E+02	3.20E+02	2.99E+02	2.79E+02	2.43E+02	2.11E+02	1.72E+02
SB126	1.61E-05	1.60E-05	1.57E-05	1.55E-05	1.54E-05	1.52E-05	1.42E-05	1.32E-05	1.15E-05	1.00E-05	8.15E-06
SB126M	1.22E-07	1.21E-07	1.20E-07	1.18E-07	1.17E-07	1.16E-07	1.08E-07	1.01E-07	8.76E-08	7.63E-08	6.20E-08
TE125	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01
TE126	4.72E+00	7.06E+00	1.17E+01	1.62E+01	1.96E+01	2.30E+01	4.44E+01	6.44E+01	1.00E+02	1.32E+02	1.71E+02
I 129	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.83E+06	3.82E+06	3.82E+06	3.82E+06	3.82E+06	3.81E+06
XE129	3.38E+02	5.07E+02	8.45E+02	1.18E+03	1.44E+03	1.69E+03	3.38E+03	5.07E+03	8.44E+03	1.18E+04	1.69E+04
XE131	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09
CS135	8.91E+03	8.91E+03	8.91E+03	8.90E+03	8.90E+03	8.89E+03	8.87E+03	8.84E+03	8.79E+03	8.73E+03	8.66E+03
CS137	2.68E-16	2.49E-26	2.14E-46	1.85E-66	1.65E-81	1.48E-96	0.0	0.0	0.0	0.0	0.0
BA134	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02
BA135	5.37E+00	8.06E+00	1.34E+01	1.88E+01	2.28E+01	2.68E+01	5.36E+01	8.03E+01	1.33E+02	1.86E+02	2.65E+02
BA137	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04
BA137M	4.10E-23	3.80E-33	3.28E-53	2.83E-73	2.53E-88	2.26E-103	0.0	0.0	0.0	0.0	0.0
CE140	2.19E-11	3.28E-11	5.47E-11	7.66E-11	9.31E-11	1.09E-10	2.19E-10	3.28E-10	5.47E-10	7.66E-10	1.10E-09
ND143	3.58E-06	5.38E-06	8.97E-06	1.26E-05	1.53E-05	1.79E-05	3.59E-05	5.39E-05	8.98E-05	1.26E-04	1.80E-04
ND144	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01
SM147	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02
SM148	7.20E-11	1.08E-10	1.81E-10	2.53E-10	3.08E-10	3.62E-10	7.25E-10	1.09E-09	1.81E-09	2.54E-09	3.63E-09
SM151	1.56E-06	7.05E-10	1.45E-16	2.96E-23	2.85E-28	2.75E-33	0.0	0.0	0.0	0.0	0.0
SM152	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01
EU151	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00
GD152	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00
GD154	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02
GD155	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01

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FISSION PRODUCTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y
SE 79	1.18E+11	1.16E+11	1.14E+11	1.11E+11	1.10E+11	1.08E+11	9.70E+10	8.72E+10	7.04E+10	5.69E+10	4.13E+10
RB 87	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04
SR 90	1.07E-04	4.96E-15	1.06E-35	2.27E-56	7.16E-72	2.25E-87	0.0	0.0	0.0	0.0	0.0
Y 90	1.07E-04	4.96E-15	1.06E-35	2.27E-56	7.16E-72	2.25E-87	0.0	0.0	0.0	0.0	0.0
ZR 93	1.00E+12	9.99E+11	9.98E+11	9.97E+11	9.97E+11	9.96E+11	9.91E+11	9.87E+11	9.78E+11	9.69E+11	9.56E+11
NB 93M	9.50E+11	9.49E+11	9.48E+11	9.47E+11	9.47E+11	9.46E+11	9.42E+11	9.38E+11	9.29E+11	9.21E+11	9.08E+11
NB 94	4.20E+09	4.06E+09	3.80E+09	3.54E+09	3.37E+09	3.20E+09	2.27E+09	1.62E+09	8.17E+08	4.13E+08	1.48E+08
TC 99	2.58E+13	2.58E+13	2.56E+13	2.54E+13	2.53E+13	2.52E+13	2.44E+13	2.36E+13	2.21E+13	2.07E+13	1.88E+13
PD107	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.30E+07	1.29E+07	1.29E+07
AG108	2.76E+05	1.18E+03	2.15E-02	3.91E-07	1.09E-10	3.05E-14	0.0	0.0	0.0	0.0	0.0
AG108M	3.10E+06	1.32E+04	2.41E-01	4.40E-06	1.23E-09	3.42E-13	0.0	0.0	0.0	0.0	0.0
SN126	3.55E+11	3.53E+11	3.48E+11	3.43E+11	3.40E+11	3.36E+11	3.14E+11	2.93E+11	2.55E+11	2.22E+11	1.80E+11
SB126	4.97E+10	4.94E+10	4.87E+10	4.80E+10	4.75E+10	4.70E+10	4.39E+10	4.10E+10	3.57E+10	3.10E+10	2.52E+10
SB126M	3.55E+11	3.53E+11	3.48E+11	3.43E+11	3.40E+11	3.36E+11	3.14E+11	2.93E+11	2.55E+11	2.22E+11	1.80E+11
I 129	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.50E+13	2.49E+13	2.49E+13
CS135	3.80E+11	3.80E+11	3.80E+11	3.79E+11	3.79E+11	3.79E+11	3.78E+11	3.77E+11	3.74E+11	3.72E+11	3.69E+11
CS137	8.62E-04	8.01E-14	6.90E-34	5.95E-54	5.32E-69	4.76E-84	0.0	0.0	0.0	0.0	0.0
BA137M	8.16E-04	7.57E-14	6.53E-34	5.63E-54	5.03E-69	4.50E-84	0.0	0.0	0.0	0.0	0.0
ND144	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00
SM147	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05
SM148	8.05E-13	1.21E-12	2.02E-12	2.83E-12	3.44E-12	4.05E-12	8.10E-12	1.22E-11	2.03E-11	2.84E-11	4.05E-11
SM151	1.52E+06	6.87E+02	1.41E-04	2.88E-11	2.78E-16	2.68E-21	0.0	0.0	0.0	0.0	0.0
GD152	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00
TOTAL	5.41E+13	5.40E+13	5.38E+13	5.36E+13	5.35E+13	5.33E+13	5.24E+13	5.16E+13	5.00E+13	4.84E+13	4.63E+13

FISSION PRODUCTS

NUCLIDE THERMAL POWER, WATTS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y
SE 79	7.91E-04	7.82E-04	7.66E-04	7.50E-04	7.38E-04	7.26E-04	6.53E-04	5.87E-04	4.74E-04	3.83E-04	2.78E-04
RB 87	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09
SR 90	3.36E-18	1.55E-28	3.33E-49	7.13E-70	2.24E-85	7.07E-101	0.0	0.0	0.0	0.0	0.0
Y 90	1.60E-17	7.43E-28	1.59E-48	3.41E-69	1.07E-84	3.38E-100	0.0	0.0	0.0	0.0	0.0
ZR 93	3.14E-03	3.14E-03	3.13E-03	3.13E-03	3.13E-03	3.13E-03	3.11E-03	3.10E-03	3.07E-03	3.04E-03	3.00E-03
NB 93M	4.55E-03	4.55E-03	4.54E-03	4.54E-03	4.54E-03	4.53E-03	4.51E-03	4.49E-03	4.45E-03	4.41E-03	4.35E-03
NB 94	1.16E-03	1.12E-03	1.05E-03	9.76E-04	9.28E-04	8.81E-04	6.26E-04	4.45E-04	2.25E-04	1.14E-04	4.08E-05
TC 99	3.50E-01	3.49E-01	3.47E-01	3.45E-01	3.43E-01	3.41E-01	3.30E-01	3.20E-01	3.00E-01	2.81E-01	2.55E-01
PD107	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.08E-08	2.07E-08	2.07E-08	2.06E-08
AG108	2.78E-08	1.19E-10	2.16E-15	3.94E-20	1.10E-23	3.07E-27	0.0	0.0	0.0	0.0	0.0
AG108M	8.15E-07	3.48E-09	6.34E-14	1.16E-18	3.22E-22	9.00E-26	0.0	0.0	0.0	0.0	0.0
SN126	1.20E-02	1.19E-02	1.17E-02	1.16E-02	1.14E-02	1.13E-02	1.06E-02	9.86E-03	8.59E-03	7.47E-03	6.07E-03
SB126	2.48E-02	2.47E-02	2.43E-02	2.40E-02	2.37E-02	2.35E-02	2.19E-02	2.05E-02	1.78E-02	1.55E-02	1.26E-02
SB126M	1.22E-01	1.21E-01	1.20E-01	1.18E-01	1.17E-01	1.16E-01	1.08E-01	1.01E-01	8.76E-02	7.63E-02	6.20E-02
I 129	3.13E-01	3.12E-01	3.12E-01	3.12E-01	3.12E-01	3.12E-01	3.12E-01	3.12E-01	3.12E-01	3.12E-01	3.11E-01
CS135	3.43E-03	3.43E-03	3.42E-03	3.42E-03	3.42E-03	3.42E-03	3.41E-03	3.40E-03	3.38E-03	3.36E-03	3.33E-03
CS137	2.58E-17	2.39E-27	2.06E-47	1.78E-67	1.59E-82	1.42E-97	0.0	0.0	0.0	0.0	0.0
BA137M	8.66E-17	8.04E-27	6.93E-47	5.97E-67	5.34E-82	4.78E-97	0.0	0.0	0.0	0.0	0.0
SM147	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08
SM148	2.60E-25	3.90E-25	6.52E-25	9.14E-25	1.11E-24	1.31E-24	2.61E-24	3.92E-24	6.54E-24	9.16E-24	1.31E-23
SM151	4.81E-09	2.18E-12	4.46E-19	9.15E-26	8.81E-31	8.49E-36	0.0	0.0	0.0	0.0	0.0
GD152	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12
TOTAL	9.25E-01	8.33E-01	8.28E-01	8.23E-01	8.20E-01	8.17E-01	7.95E-01	7.75E-01	7.37E-01	7.03E-01	6.57E-01

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

		CONCENTRATIONS ,GRAMATOMS										
	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y	
TOTAL	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06
		CONCENTRATIONS ,GRAMS										
	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y	
TOTAL	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08
		RADIOACTIVITY ,BECQUEREL										
	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y	
TOTAL	3.83E+15	3.38E+15	2.94E+15	2.62E+15	2.42E+15	2.24E+15	1.47E+15	1.09E+15	7.23E+14	5.38E+14	3.87E+14	
		THERMAL POWER ,WATTS										
	INITIAL	.300E+4 Y	.500E+4 Y	.700E+4 Y	.850E+4 Y	.100E+5 Y	.200E+5 Y	.300E+5 Y	.500E+5 Y	.700E+5 Y	.100E+6 Y	
TOTAL	2.83E+03	2.44E+03	2.09E+03	1.83E+03	1.67E+03	1.53E+03	9.17E+02	6.21E+02	3.51E+02	2.26E+02	1.37E+02	

LIGHT ELEMENTS

NUCLIDE CONCENTRATIONS, GRAM ATOMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
BE 10	1.27E-07	1.22E-07	1.17E-07	1.07E-07	9.83E-08	8.63E-08	5.60E-08	3.63E-08	1.53E-08	6.42E-09	1.75E-09
B 10	5.64E-09	1.10E-08	1.62E-08	2.59E-08	3.48E-08	4.68E-08	7.71E-08	9.68E-08	1.18E-07	1.27E-07	1.31E-07
C 14	2.01E-04	1.12E-09	6.26E-15	1.95E-25	6.09E-36	1.06E-51	0.0	0.0	0.0	0.0	0.0
N 14	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01	3.59E+01
NE 22	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03
S 36	9.78E-03	1.75E-02	2.37E-02	3.25E-02	3.81E-02	4.28E-02	4.71E-02	4.75E-02	4.76E-02	4.76E-02	4.76E-02
CL 35	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07	2.73E-07
CL 36	1.99E+00	1.58E+00	1.25E+00	7.92E-01	5.00E-01	2.50E-01	2.50E-02	2.51E-03	2.51E-05	2.51E-07	2.51E-10
AR 36	5.05E-01	9.06E-01	1.22E+00	1.68E+00	1.97E+00	2.21E+00	2.43E+00	2.45E+00	2.46E+00	2.46E+00	2.46E+00
K 39	2.01E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05	2.01E-05
K 41	5.28E-01	7.53E-01	8.48E-01	9.06E-01	9.16E-01	9.18E-01	9.19E-01	9.19E-01	9.19E-01	9.19E-01	9.19E-01
CA 41	3.90E-01	1.66E-01	7.05E-02	1.27E-02	2.30E-03	1.77E-04	3.40E-08	6.55E-12	2.43E-19	8.99E-27	6.41E-38
SC 45	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06	6.75E-06
TI 46	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07	8.15E-07
TI 49	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07	4.64E-07
V 51	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07	6.31E-07
CR 54	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02
MN 55	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00	5.31E+00
FE 58	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05	1.76E-05
CO 59	1.58E+03	2.24E+03	2.52E+03	2.69E+03	2.72E+03	2.72E+03	2.72E+03	2.72E+03	2.72E+03	2.72E+03	2.72E+03
NI 59	1.14E+03	4.81E+02	2.02E+02	3.58E+01	6.33E+00	4.71E-01	8.14E-05	1.41E-08	4.21E-16	1.26E-23	6.52E-35
NI 60	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01	6.37E+01
CU 63	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02	2.64E+02
CU 65	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03
NB 93	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05	1.16E-05
MO 93	2.90E-14	7.25E-23	1.81E-31	1.13E-48	7.01E-66	0.0	0.0	0.0	0.0	0.0	0.0
W 182	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05	9.76E-05
TOTAL	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03	3.09E+03

LIGHT ELEMENTS

NUCLIDE CONCENTRATIONS, GRAMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
BE 10	1.27E-06	1.22E-06	1.17E-06	1.07E-06	9.83E-07	8.63E-07	5.60E-07	3.63E-07	1.53E-07	6.42E-08	1.75E-08
B 10	5.64E-08	1.10E-07	1.62E-07	2.59E-07	3.48E-07	4.68E-07	7.71E-07	9.68E-07	1.18E-06	1.27E-06	1.31E-06
C 14	2.81E-03	1.57E-08	8.76E-14	2.73E-24	8.52E-35	1.48E-50	0.0	0.0	0.0	0.0	0.0
N 14	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02	5.03E+02
NE 22	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02	3.29E-02
S 36	3.52E-01	6.32E-01	8.54E-01	1.17E+00	1.37E+00	1.54E+00	1.70E+00	1.71E+00	1.71E+00	1.71E+00	1.71E+00
CL 35	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06	9.56E-06
CL 36	7.16E+01	5.69E+01	4.52E+01	2.85E+01	1.80E+01	9.01E+00	9.02E-01	9.02E-02	9.03E-04	9.03E-06	9.04E-09
AR 36	1.82E+01	3.26E+01	4.41E+01	6.04E+01	7.08E+01	7.96E+01	8.75E+01	8.83E+01	8.84E+01	8.84E+01	8.84E+01
K 39	7.85E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04	7.85E-04
K 41	2.17E+01	3.09E+01	3.48E+01	3.71E+01	3.76E+01	3.77E+01	3.77E+01	3.77E+01	3.77E+01	3.77E+01	3.77E+01
CA 41	1.60E+01	6.80E+00	2.89E+00	5.22E-01	9.44E-02	7.25E-03	1.40E-06	2.69E-10	9.95E-18	3.69E-25	2.63E-36
SC 45	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04	3.04E-04
TI 46	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05	3.75E-05
TI 49	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05	2.28E-05
V 51	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05	3.22E-05
CR 54	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01	9.08E-01
MN 55	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02	2.92E+02
FE 58	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03
CO 59	9.30E+04	1.32E+05	1.49E+05	1.58E+05	1.60E+05	1.61E+05	1.61E+05	1.61E+05	1.61E+05	1.61E+05	1.61E+05
NI 59	6.75E+04	2.84E+04	1.19E+04	2.11E+03	3.73E+02	2.78E+01	4.80E-03	8.31E-07	2.49E-14	7.44E-22	3.85E-33
NI 60	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03	3.82E+03
CU 63	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04	1.67E+04
CU 65	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02	8.53E-02
NB 93	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03
MO 93	2.70E-12	6.74E-21	1.68E-29	1.05E-46	6.52E-64	0.0	0.0	0.0	0.0	0.0	0.0
W 182	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02	1.78E-02
TOTAL	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05	1.82E+05

LIGHT ELEMENTS

NUCLIDE RADIOACTIVITY, BECQUEREL
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
BE 10	1.05E+03	1.01E+03	9.66E+02	8.86E+02	8.13E+02	7.14E+02	4.63E+02	3.00E+02	1.26E+02	5.31E+01	1.45E+01
C 14	4.64E+08	2.59E+03	1.45E-02	4.51E-13	1.41E-23	2.45E-39	0.0	0.0	0.0	0.0	0.0
CL 36	8.74E+10	6.94E+10	5.52E+10	3.48E+10	2.20E+10	1.10E+10	1.10E+09	1.10E+08	1.10E+06	1.10E+04	1.10E+01
CA 41	6.38E+10	2.71E+10	1.15E+10	2.08E+09	3.76E+08	2.89E+07	5.56E+03	1.07E+00	3.96E-08	1.47E-15	1.05E-26
NI 59	1.89E+14	7.96E+13	3.35E+13	5.92E+12	1.05E+12	7.79E+10	1.35E+07	2.33E+03	6.97E-05	2.08E-12	1.08E-23
MO 93	1.10E-01	2.74E-10	6.84E-19	4.26E-36	2.65E-53	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.89E+14	7.97E+13	3.35E+13	5.96E+12	1.07E+12	8.89E+10	1.11E+09	1.10E+08	1.10E+06	1.11E+04	2.55E+01

LIGHT ELEMENTS

NUCLIDE THERMAL POWER, WATTS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
BE 10	3.42E-11	3.27E-11	3.14E-11	2.87E-11	2.64E-11	2.32E-11	1.50E-11	9.74E-12	4.09E-12	1.72E-12	4.69E-13
C 14	3.68E-06	2.05E-11	1.15E-16	3.57E-27	1.11E-37	1.94E-53	0.0	0.0	0.0	0.0	0.0
CL 36	3.45E-03	2.74E-03	2.18E-03	1.38E-03	8.68E-04	4.35E-04	4.35E-05	4.35E-06	4.36E-08	4.36E-10	4.36E-13
CA 41	4.36E-03	1.85E-03	7.88E-04	1.42E-04	2.57E-05	1.98E-06	3.80E-10	7.32E-14	2.71E-21	1.00E-28	7.17E-40
NI 59	3.26E+01	1.37E+01	5.76E+00	1.02E+00	1.80E-01	1.34E-02	2.32E-06	4.01E-10	1.20E-17	3.59E-25	1.86E-36
MO 93	2.78E-16	6.94E-25	1.73E-33	1.08E-50	6.72E-68	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.26E+01	1.37E+01	5.76E+00	1.02E+00	1.81E-01	1.38E-02	4.58E-05	4.35E-06	4.36E-08	4.38E-10	9.06E-13

ACTINIDES

 NUCLIDE CONCENTRATIONS, GRAM ATOMS
 BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
HE 4	3.78E+03	4.18E+03	4.50E+03	5.17E+03	5.87E+03	6.92E+03	1.05E+04	1.40E+04	2.06E+04	2.71E+04	3.62E+04
TL207	1.43E-10	1.64E-10	1.67E-10	1.67E-10	1.67E-10	1.67E-10	1.67E-10	1.67E-10	1.66E-10	1.66E-10	1.65E-10
TL208	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.64E-11	3.65E-11	3.65E-11	3.65E-11	3.65E-11
TL209	3.59E-12	6.50E-12	8.03E-12	9.22E-12	9.39E-12	8.85E-12	6.43E-12	4.65E-12	2.25E-12	1.18E-12	4.46E-13
PB206	1.01E+01	3.27E+01	6.09E+01	1.24E+02	1.92E+02	2.95E+02	6.74E+02	1.06E+03	1.80E+03	2.54E+03	3.59E+03
PB207	7.29E-01	1.93E+00	3.20E+00	5.76E+00	8.32E+00	1.22E+01	2.49E+01	3.77E+01	6.32E+01	8.87E+01	1.27E+02
PB208	1.21E+00	2.41E+00	3.62E+00	6.03E+00	8.44E+00	1.21E+01	2.41E+01	3.62E+01	6.03E+01	8.44E+01	1.21E+02
PB209	1.47E-08	2.66E-08	3.28E-08	3.77E-08	3.84E-08	3.62E-08	2.63E-08	1.90E-08	9.21E-09	4.82E-09	1.82E-09
PB210	5.86E-03	8.38E-03	9.62E-03	1.06E-02	1.09E-02	1.11E-02	1.16E-02	1.16E-02	1.13E-02	1.13E-02	1.13E-02
PB211	1.09E-09	1.24E-09	1.27E-09	1.27E-09	1.27E-09	1.27E-09	1.27E-09	1.26E-09	1.26E-09	1.26E-09	1.26E-09
PB212	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08	2.11E-08
PB214	1.34E-08	1.92E-08	2.20E-08	2.41E-08	2.50E-08	2.55E-08	2.65E-08	2.65E-08	2.58E-08	2.58E-08	2.58E-08
BI209	1.30E+00	5.20E+00	1.06E+01	2.37E+01	3.78E+01	5.86E+01	1.16E+02	1.58E+02	2.10E+02	2.36E+02	2.58E+02
BI210	3.60E-06	5.16E-06	5.92E-06	6.50E-06	6.73E-06	6.86E-06	7.13E-06	7.14E-06	6.96E-06	6.95E-06	6.94E-06
BI211	6.40E-11	7.34E-11	7.46E-11	7.48E-11	7.48E-11	7.48E-11	7.47E-11	7.46E-11	7.45E-11	7.43E-11	7.41E-11
BI212	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09	2.00E-09
BI213	3.39E-09	6.13E-09	7.57E-09	8.69E-09	8.86E-09	8.34E-09	6.06E-09	4.39E-09	2.12E-09	1.11E-09	4.21E-10
BI214	9.94E-09	1.42E-08	1.63E-08	1.79E-08	1.86E-08	1.89E-08	1.97E-08	1.97E-08	1.92E-08	1.92E-08	1.91E-08
PO210	9.95E-05	1.42E-04	1.63E-04	1.80E-04	1.86E-04	1.89E-04	1.97E-04	1.97E-04	1.92E-04	1.92E-04	1.92E-04
PO211	8.42E-16	9.65E-16	9.81E-16	9.83E-16	9.83E-16	9.83E-16	9.82E-16	9.81E-16	9.79E-16	9.77E-16	9.74E-16
PO212	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19	1.06E-19
PO213	5.08E-18	9.19E-18	1.14E-17	1.30E-17	1.33E-17	1.25E-17	9.09E-18	6.58E-18	3.19E-18	1.67E-18	6.31E-19
PO214	1.37E-15	1.96E-15	2.25E-15	2.47E-15	2.55E-15	2.60E-15	2.71E-15	2.71E-15	2.64E-15	2.64E-15	2.63E-15
PO215	8.92E-16	1.02E-15	1.04E-15	1.04E-15	1.04E-15	1.04E-15	1.04E-15	1.04E-15	1.04E-15	1.04E-15	1.03E-15
PO216	8.27E-14	8.27E-14	8.27E-14	8.27E-14	8.27E-14	8.27E-14	8.27E-14	8.27E-14	8.27E-14	8.27E-14	8.28E-14
PO218	1.52E-09	2.18E-09	2.50E-09	2.75E-09	2.84E-09	2.90E-09	3.01E-09	3.02E-09	2.94E-09	2.94E-09	2.93E-09
AT217	4.00E-14	7.23E-14	8.93E-14	1.03E-13	1.04E-13	9.84E-14	7.15E-14	5.17E-14	2.51E-14	1.31E-14	4.96E-15
RN219	1.98E-12	2.27E-12	2.31E-12	2.32E-12	2.32E-12	2.32E-12	2.31E-12	2.31E-12	2.31E-12	2.30E-12	2.30E-12
RN220	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.06E-11	3.07E-11	3.07E-11	3.07E-11
RN222	2.75E-06	3.94E-06	4.52E-06	4.96E-06	5.13E-06	5.23E-06	5.44E-06	5.44E-06	5.31E-06	5.31E-06	5.30E-06
FR221	3.56E-10	6.45E-10	7.96E-10	9.14E-10	9.32E-10	8.77E-10	6.37E-10	4.61E-10	2.23E-10	1.17E-10	4.42E-11
FR223	9.17E-12	1.05E-11	1.07E-11	1.07E-11	1.07E-11	1.07E-11	1.07E-11	1.07E-11	1.07E-11	1.07E-11	1.06E-11
RA223	4.95E-07	5.67E-07	5.77E-07	5.78E-07	5.78E-07	5.78E-07	5.77E-07	5.77E-07	5.76E-07	5.75E-07	5.73E-07
RA224	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07	1.74E-07
RA225	1.58E-06	2.86E-06	3.54E-06	4.06E-06	4.14E-06	3.90E-06	2.83E-06	2.05E-06	9.92E-07	5.19E-07	1.96E-07
RA226	4.20E-01	6.01E-01	6.90E-01	7.58E-01	7.85E-01	8.00E-01	8.32E-01	8.32E-01	8.11E-01	8.11E-01	8.09E-01
RA228	1.16E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04
AC225	1.07E-06	1.93E-06	2.39E-06	2.74E-06	2.80E-06	2.63E-06	1.91E-06	1.38E-06	6.70E-07	3.51E-07	1.33E-07
AC227	3.44E-04	3.95E-04	4.01E-04	4.02E-04	4.02E-04	4.02E-04	4.02E-04	4.01E-04	4.00E-04	4.00E-04	3.98E-04
AC228	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08	1.22E-08
TH227	7.99E-07	9.16E-07	9.31E-07	9.33E-07	9.33E-07	9.33E-07	9.32E-07	9.31E-07	9.29E-07	9.27E-07	9.25E-07
TH228	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05	3.33E-05
TH229	2.87E-01	5.18E-01	6.40E-01	7.35E-01	7.49E-01	7.06E-01	5.13E-01	3.71E-01	1.80E-01	9.40E-02	3.56E-02
TH230	2.00E+01	2.88E+01	3.30E+01	3.64E+01	3.76E+01	3.84E+01	4.00E+01	4.00E+01	3.90E+01	3.90E+01	3.90E+01
TH231	5.32E-08	5.38E-08	5.38E-08	5.38E-08	5.38E-08	5.37E-08	5.37E-08	5.36E-08	5.35E-08	5.34E-08	5.33E-08
TH232	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.44E+05	2.45E+05	2.45E+05
TH234	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05
PA231	5.18E-01	5.94E-01	6.04E-01	6.05E-01	6.05E-01	6.05E-01	6.04E-01	6.04E-01	6.03E-01	6.01E-01	6.00E-01
PA233	8.84E-06	8.56E-06	8.29E-06	7.77E-06	7.28E-06	6.61E-06	4.78E-06	3.46E-06	1.81E-06	9.47E-07	3.58E-07

PA234M	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09	1.13E-09
PA234	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10	5.03E-10
U 233	6.78E+00	1.10E+01	1.35E+01	1.56E+01	1.59E+01	1.50E+01	1.11E+01	8.00E+00	3.88E+00	2.03E+00	7.68E-01	
U 234	1.08E+02	1.12E+02	1.15E+02	1.19E+02	1.21E+02	1.23E+02	1.24E+02	1.24E+02	1.24E+02	1.24E+02	1.24E+02	1.24E+02
U 235	1.29E+04	1.30E+04	1.30E+04	1.30E+04	1.30E+04	1.30E+04	1.30E+04	1.30E+04	1.29E+04	1.29E+04	1.29E+04	1.29E+04
U 236	1.80E+03	1.79E+03	1.79E+03	1.78E+03	1.77E+03	1.75E+03	1.70E+03	1.65E+03	1.55E+03	1.47E+03	1.34E+03	
U 237	7.04E-16	2.03E-19	5.83E-23	4.82E-30	3.99E-37	9.48E-48	0.0	0.0	0.0	0.0	0.0	0.0
U 238	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06	2.26E+06
U 240	4.36E-17	7.66E-17	1.03E-16	1.43E-16	1.69E-16	1.93E-16	2.16E-16	2.17E-16	2.14E-16	2.11E-16	2.05E-16	
NP237	2.56E+02	2.48E+02	2.40E+02	2.25E+02	2.11E+02	1.91E+02	1.38E+02	1.00E+02	5.24E+01	2.74E+01	1.04E+01	
NP239	9.25E-14	5.32E-14	5.29E-14	5.24E-14	5.20E-14	5.13E-14	4.91E-14	4.69E-14	4.29E-14	3.93E-14	3.44E-14	
NP240M	3.81E-19	6.70E-19	9.05E-19	1.25E-18	1.48E-18	1.69E-18	1.89E-18	1.90E-18	1.87E-18	1.84E-18	1.80E-18	
PU239	1.33E+02	7.46E+00	4.19E-01	1.32E-03	4.35E-06	1.92E-07	1.83E-07	1.75E-07	1.60E-07	1.47E-07	1.28E-07	
PU240	2.59E-02	6.46E-07	4.37E-10	5.82E-10	6.88E-10	7.84E-10	8.78E-10	8.83E-10	8.71E-10	8.56E-10	8.35E-10	
PU241	2.20E-08	6.31E-12	1.82E-15	1.50E-22	1.24E-29	2.95E-40	0.0	0.0	0.0	0.0	0.0	0.0
PU242	1.08E+02	9.00E+01	7.52E+01	5.26E+01	3.67E+01	2.15E+01	3.58E+00	5.97E-01	1.66E-02	4.62E-04	2.14E-06	
PU243	4.68E-15	4.66E-15	4.64E-15	4.60E-15	4.56E-15	4.50E-15	4.30E-15	4.11E-15	3.76E-15	3.44E-15	3.01E-15	
PU244	2.24E-06	3.94E-06	5.32E-06	7.36E-06	8.71E-06	9.92E-06	1.11E-05	1.12E-05	1.10E-05	1.08E-05	1.06E-05	
AM241	6.59E-07	2.00E-10	5.74E-14	4.75E-21	3.93E-28	9.35E-39	0.0	0.0	0.0	0.0	0.0	0.0
AM243	1.06E-07	6.08E-08	6.06E-08	6.00E-08	5.95E-08	5.87E-08	5.62E-08	5.37E-08	4.91E-08	4.50E-08	3.94E-08	
CM245	1.29E-05	3.72E-09	1.07E-12	8.85E-20	7.32E-27	1.74E-37	0.0	0.0	0.0	0.0	0.0	0.0
CM246	4.05E-09	1.76E-15	7.66E-22	1.45E-34	2.75E-47	2.26E-66	0.0	0.0	0.0	0.0	0.0	0.0
CM247	1.29E-04	1.29E-04	1.28E-04	1.27E-04	1.26E-04	1.24E-04	1.19E-04	1.14E-04	1.04E-04	9.51E-05	8.32E-05	
CM248	1.00E-05	8.18E-06	6.66E-06	4.43E-06	2.94E-06	1.59E-06	2.06E-07	2.67E-08	4.49E-10	7.53E-12	1.64E-14	
TOTAL	2.53E+06	2.53E+06	2.53E+06	2.53E+06	2.53E+06	2.53E+06	2.53E+06	2.54E+06	2.54E+06	2.55E+06	2.56E+06	

ACTINIDES

 NUCLIDE CONCENTRATIONS, GRAMS
 BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
HE 4	1.51E+04	1.67E+04	1.80E+04	2.07E+04	2.35E+04	2.77E+04	4.21E+04	5.61E+04	8.26E+04	1.08E+05	1.45E+05
TL207	2.96E-08	3.39E-08	3.45E-08	3.46E-08	3.46E-08	3.46E-08	3.45E-08	3.45E-08	3.44E-08	3.44E-08	3.43E-08
TL208	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.58E-09	7.59E-09	7.59E-09
TL209	7.51E-10	1.36E-09	1.68E-09	1.93E-09	1.96E-09	1.85E-09	1.34E-09	9.72E-10	4.71E-10	2.46E-10	9.32E-11
PB206	2.09E+03	6.73E+03	1.25E+04	2.56E+04	3.94E+04	6.08E+04	1.39E+05	2.17E+05	3.70E+05	5.23E+05	7.39E+05
PB207	1.51E+02	3.99E+02	6.62E+02	1.19E+03	1.72E+03	2.52E+03	5.16E+03	7.81E+03	1.31E+04	1.84E+04	2.62E+04
PB208	2.51E+02	5.01E+02	7.52E+02	1.25E+03	1.75E+03	2.51E+03	5.01E+03	7.52E+03	1.25E+04	1.76E+04	2.51E+04
PB209	3.07E-06	5.56E-06	6.86E-06	7.88E-06	8.03E-06	7.56E-06	5.50E-06	3.98E-06	1.93E-06	1.01E-06	3.81E-07
PB210	1.23E+00	1.76E+00	2.02E+00	2.22E+00	2.30E+00	2.34E+00	2.43E+00	2.44E+00	2.37E+00	2.37E+00	2.37E+00
PB211	2.29E-07	2.62E-07	2.67E-07	2.68E-07	2.67E-07	2.67E-07	2.67E-07	2.67E-07	2.66E-07	2.66E-07	2.65E-07
PB212	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.47E-06	4.48E-06	4.48E-06	4.48E-06	4.48E-06	4.48E-06
PB214	2.86E-06	4.10E-06	4.70E-06	5.17E-06	5.35E-06	5.45E-06	5.67E-06	5.67E-06	5.53E-06	5.53E-06	5.52E-06
BI209	2.73E+02	1.09E+03	2.22E+03	4.96E+03	7.91E+03	1.22E+04	2.43E+04	3.30E+04	4.38E+04	4.94E+04	5.32E+04
BI210	7.57E-04	1.08E-03	1.24E-03	1.37E-03	1.41E-03	1.44E-03	1.50E-03	1.50E-03	1.46E-03	1.46E-03	1.46E-03
BI211	1.35E-08	1.55E-08	1.58E-08	1.58E-08	1.58E-08	1.58E-08	1.58E-08	1.57E-08	1.57E-08	1.57E-08	1.56E-08
BI212	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.25E-07	4.25E-07	4.25E-07	4.25E-07	4.25E-07
BI213	7.22E-07	1.31E-06	1.61E-06	1.85E-06	1.89E-06	1.78E-06	1.29E-06	9.34E-07	4.53E-07	2.37E-07	8.96E-08
BI214	2.13E-06	3.04E-06	3.49E-06	3.84E-06	3.97E-06	4.05E-06	4.21E-06	4.11E-06	4.11E-06	4.10E-06	4.10E-06
PO210	2.09E-02	2.99E-02	3.43E-02	3.77E-02	3.90E-02	3.98E-02	4.14E-02	4.14E-02	4.04E-02	4.03E-02	4.03E-02
PO211	1.78E-13	2.04E-13	2.07E-13	2.07E-13	2.07E-13	2.07E-13	2.07E-13	2.07E-13	2.07E-13	2.06E-13	2.06E-13
PO212	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17	2.25E-17
PO213	1.08E-15	1.96E-15	2.42E-15	2.78E-15	2.83E-15	2.67E-15	1.94E-15	1.40E-15	6.79E-16	3.55E-16	1.34E-16
PO214	2.93E-13	4.19E-13	4.81E-13	5.28E-13	5.46E-13	5.57E-13	5.79E-13	5.79E-13	5.65E-13	5.65E-13	5.64E-13
PO215	1.92E-13	2.20E-13	2.24E-13	2.24E-13	2.24E-13	2.24E-13	2.24E-13	2.23E-13	2.23E-13	2.23E-13	2.22E-13
PO216	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11	1.79E-11
PO218	3.32E-07	4.75E-07	5.45E-07	5.99E-07	6.20E-07	6.32E-07	6.57E-07	6.57E-07	6.41E-07	6.41E-07	6.40E-07
AT217	8.67E-12	1.57E-11	1.94E-11	2.22E-11	2.27E-11	2.14E-11	1.55E-11	1.12E-11	5.44E-12	2.84E-12	1.08E-12
RN219	4.34E-10	4.98E-10	5.07E-10	5.08E-10	5.08E-10	5.07E-10	5.07E-10	5.06E-10	5.05E-10	5.04E-10	5.03E-10
RN220	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.74E-09	6.75E-09	6.75E-09
RN222	6.10E-04	8.74E-04	1.00E-03	1.10E-03	1.14E-03	1.16E-03	1.21E-03	1.21E-03	1.18E-03	1.18E-03	1.18E-03
FR221	7.88E-08	1.42E-07	1.76E-07	2.02E-07	2.06E-07	1.94E-07	1.41E-07	1.02E-07	4.94E-08	2.58E-08	9.77E-09
FR223	2.05E-09	2.35E-09	2.39E-09	2.39E-09	2.39E-09	2.39E-09	2.39E-09	2.38E-09	2.38E-09	2.37E-09	2.37E-09
RA223	1.10E-04	1.27E-04	1.29E-04	1.29E-04	1.29E-04	1.29E-04	1.29E-04	1.28E-04	1.28E-04	1.28E-04	1.28E-04
RA224	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.90E-05	3.91E-05	3.91E-05	3.91E-05
RA225	3.56E-04	6.44E-04	7.95E-04	9.14E-04	9.31E-04	8.77E-04	6.37E-04	4.61E-04	2.23E-04	1.17E-04	4.42E-05
RA226	9.50E+01	1.36E+02	1.56E+02	1.71E+02	1.77E+02	1.81E+02	1.88E+02	1.88E+02	1.83E+02	1.83E+02	1.83E+02
RA228	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02
AC225	2.41E-04	4.35E-04	5.37E-04	6.17E-04	6.29E-04	5.92E-04	4.30E-04	3.11E-04	1.51E-04	7.89E-05	2.99E-05
AC227	7.81E-02	8.96E-02	9.11E-02	9.13E-02	9.13E-02	9.13E-02	9.12E-02	9.11E-02	9.09E-02	9.07E-02	9.04E-02
AC228	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.78E-06	2.78E-06
TH227	1.81E-04	2.08E-04	2.11E-04	2.12E-04	2.12E-04	2.12E-04	2.12E-04	2.11E-04	2.11E-04	2.10E-04	2.10E-04
TH228	7.58E-03	7.58E-03	7.58E-03	7.58E-03	7.58E-03	7.58E-03	7.59E-03	7.59E-03	7.59E-03	7.59E-03	7.59E-03
TH229	6.56E+01	1.19E+02	1.47E+02	1.68E+02	1.72E+02	1.62E+02	1.17E+02	8.49E+01	4.11E+01	2.15E+01	8.14E+00
TH230	4.59E+03	6.62E+03	7.58E+03	8.36E+03	8.66E+03	8.84E+03	9.20E+03	9.21E+03	8.98E+03	8.98E+03	8.96E+03
TH231	1.23E-05	1.24E-05	1.24E-05	1.24E-05	1.24E-05	1.24E-05	1.24E-05	1.24E-05	1.24E-05	1.23E-05	1.23E-05
TH232	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.67E+07	5.68E+07
TH234	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.82E-03	7.81E-03	7.81E-03	7.81E-03
PA231	1.20E+02	1.37E+02	1.40E+02	1.40E+02	1.40E+02	1.40E+02	1.40E+02	1.39E+02	1.39E+02	1.39E+02	1.39E+02
PA233	2.06E-03	1.99E-03	1.93E-03	1.81E-03	1.70E-03	1.54E-03	1.11E-03	8.05E-04	4.21E-04	2.21E-04	8.35E-05

PA234M	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.64E-07	2.63E-07	2.63E-07	2.63E-07
PA234	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07	1.18E-07
U 233	1.58E+03	2.56E+03	3.14E+03	3.64E+03	3.70E+03	3.50E+03	2.58E+03	1.87E+03	9.04E+02	4.73E+02	1.79E+02	1.79E+02
U 234	2.53E+04	2.62E+04	2.69E+04	2.78E+04	2.83E+04	2.87E+04	2.90E+04	2.90E+04	2.90E+04	2.90E+04	2.89E+04	2.89E+04
U 235	3.03E+06	3.05E+06	3.06E+06	3.06E+06	3.05E+06	3.05E+06	3.05E+06	3.05E+06	3.04E+06	3.04E+06	3.03E+06	3.03E+06
U 236	4.24E+05	4.23E+05	4.22E+05	4.19E+05	4.17E+05	4.13E+05	4.01E+05	3.89E+05	3.67E+05	3.46E+05	3.16E+05	3.16E+05
U 237	1.67E-13	4.80E-17	1.38E-20	1.14E-27	9.45E-35	2.25E-45	0.0	0.0	0.0	0.0	0.0	0.0
U 238	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.39E+08	5.38E+08	5.38E+08	5.38E+08	5.38E+08	5.38E+08	5.38E+08
U 240	1.05E-14	1.84E-14	2.48E-14	3.44E-14	4.07E-14	4.63E-14	5.18E-14	5.22E-14	5.14E-14	5.06E-14	4.93E-14	4.93E-14
NP237	6.07E+04	5.87E+04	5.69E+04	5.33E+04	4.99E+04	4.53E+04	3.28E+04	2.37E+04	1.24E+04	6.49E+03	2.46E+03	2.46E+03
NP239	2.21E-11	1.27E-11	1.26E-11	1.25E-11	1.24E-11	1.23E-11	1.17E-11	1.12E-11	1.03E-11	9.39E-12	8.22E-12	8.22E-12
NP240M	9.15E-17	1.61E-16	2.17E-16	3.01E-16	3.56E-16	4.05E-16	4.53E-16	4.56E-16	4.50E-16	4.42E-16	4.31E-16	4.31E-16
PU239	3.17E+04	1.78E+03	1.00E+02	3.15E-01	1.04E-03	4.59E-05	4.38E-05	4.19E-05	3.83E-05	3.50E-05	3.07E-05	3.07E-05
PU240	6.22E+00	1.55E-04	1.05E-07	1.40E-07	1.65E-07	1.88E-07	2.11E-07	2.12E-07	2.09E-07	2.05E-07	2.00E-07	2.00E-07
PU241	5.29E-06	1.52E-09	4.38E-13	3.62E-20	2.99E-27	7.12E-38	0.0	0.0	0.0	0.0	0.0	0.0
PU242	2.60E+04	2.18E+04	1.82E+04	1.27E+04	8.89E+03	5.20E+03	8.66E+02	1.45E+02	4.02E+00	1.12E-01	5.19E-04	5.19E-04
PU243	1.14E-12	1.13E-12	1.13E-12	1.12E-12	1.11E-12	1.09E-12	1.05E-12	1.00E-12	9.15E-13	8.37E-13	7.33E-13	7.33E-13
PU244	5.47E-04	9.61E-04	1.30E-03	1.80E-03	2.12E-03	2.42E-03	2.71E-03	2.73E-03	2.69E-03	2.64E-03	2.58E-03	2.58E-03
AM241	1.59E-04	4.81E-08	1.38E-11	1.14E-18	9.47E-26	2.25E-36	0.0	0.0	0.0	0.0	0.0	0.0
AM243	2.57E-05	1.48E-05	1.47E-05	1.46E-05	1.45E-05	1.43E-05	1.36E-05	1.31E-05	1.19E-05	1.09E-05	9.56E-06	9.56E-06
CM245	3.17E-03	9.11E-07	2.62E-10	2.17E-17	1.79E-24	4.27E-35	0.0	0.0	0.0	0.0	0.0	0.0
CM246	9.95E-07	4.33E-13	1.88E-19	3.57E-32	6.76E-45	5.57E-64	0.0	0.0	0.0	0.0	0.0	0.0
CM247	3.19E-02	3.18E-02	3.16E-02	3.13E-02	3.11E-02	3.07E-02	2.93E-02	2.80E-02	2.57E-02	2.35E-02	2.06E-02	2.06E-02
CM248	2.49E-03	2.03E-03	1.65E-03	1.10E-03	7.30E-04	3.95E-04	5.12E-05	6.63E-06	1.11E-07	1.87E-09	4.06E-12	4.06E-12
TOTAL	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08	5.99E+08

ACTINIDES

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
TL207	2.09E+11	2.39E+11	2.43E+11	2.44E+11	2.44E+11	2.44E+11	2.43E+11	2.43E+11	2.43E+11	2.42E+11	2.41E+11
TL208	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.26E+10	8.27E+10	8.27E+10	8.27E+10
TL209	1.14E+10	2.06E+10	2.54E+10	2.92E+10	2.97E+10	2.80E+10	2.03E+10	1.47E+10	7.13E+09	3.73E+09	1.41E+09
PB209	5.17E+11	9.35E+11	1.15E+12	1.33E+12	1.35E+12	1.27E+12	9.24E+11	6.69E+11	3.24E+11	1.69E+11	6.41E+10
PB210	3.48E+12	4.97E+12	5.71E+12	6.27E+12	6.49E+12	6.61E+12	6.88E+12	6.88E+12	6.88E+12	6.71E+12	6.69E+12
PB211	2.09E+11	2.40E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.43E+11	2.43E+11	2.42E+11
PB212	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
PB214	3.48E+12	4.97E+12	5.71E+12	6.27E+12	6.49E+12	6.61E+12	6.88E+12	6.88E+12	6.71E+12	6.71E+12	6.69E+12
BI210	3.48E+12	4.97E+12	5.71E+12	6.27E+12	6.49E+12	6.61E+12	6.88E+12	6.88E+12	6.71E+12	6.71E+12	6.69E+12
BI211	2.09E+11	2.40E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.43E+11	2.43E+11	2.42E+11
BI212	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
BI213	5.17E+11	9.35E+11	1.15E+12	1.33E+12	1.35E+12	1.27E+12	9.24E+11	6.69E+11	3.24E+11	1.69E+11	6.41E+10
BI214	3.48E+12	4.97E+12	5.71E+12	6.27E+12	6.49E+12	6.61E+12	6.88E+12	6.88E+12	6.71E+12	6.71E+12	6.69E+12
PO210	3.48E+12	4.97E+12	5.71E+12	6.27E+12	6.49E+12	6.61E+12	6.88E+12	6.88E+12	6.71E+12	6.71E+12	6.69E+12
PO211	6.28E+08	7.19E+08	7.32E+08	7.33E+08	7.33E+08	7.33E+08	7.32E+08	7.31E+08	7.30E+08	7.29E+08	7.26E+08
PO212	1.47E+11	1.47E+11	1.47E+11	1.48E+11	1.48E+11	1.48E+11	1.48E+11	1.48E+11	1.48E+11	1.48E+11	1.48E+11
PO213	5.05E+11	9.14E+11	1.13E+12	1.30E+12	1.32E+12	1.24E+12	9.04E+11	6.54E+11	3.17E+11	1.66E+11	6.27E+10
PO214	3.48E+12	4.97E+12	5.71E+12	6.27E+12	6.49E+12	6.61E+12	6.88E+12	6.88E+12	6.71E+12	6.71E+12	6.69E+12
PO215	2.09E+11	2.40E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.43E+11	2.43E+11	2.42E+11
PO216	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
PO218	3.48E+12	4.97E+12	5.71E+12	6.27E+12	6.49E+12	6.61E+12	6.88E+12	6.88E+12	6.71E+12	6.71E+12	6.69E+12
AT217	5.17E+11	9.35E+11	1.15E+12	1.33E+12	1.35E+12	1.27E+12	9.24E+11	6.69E+11	3.24E+11	1.69E+11	6.41E+10
RN219	2.09E+11	2.40E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.43E+11	2.43E+11	2.42E+11
RN220	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
RN222	3.48E+12	4.97E+12	5.71E+12	6.27E+12	6.49E+12	6.61E+12	6.88E+12	6.88E+12	6.71E+12	6.71E+12	6.69E+12
FR221	5.17E+11	9.35E+11	1.15E+12	1.33E+12	1.35E+12	1.27E+12	9.24E+11	6.69E+11	3.24E+11	1.69E+11	6.41E+10
FR223	2.93E+09	3.36E+09	3.41E+09	3.42E+09	3.42E+09	3.42E+09	3.42E+09	3.41E+09	3.41E+09	3.40E+09	3.39E+09
RA223	2.09E+11	2.40E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.43E+11	2.43E+11	2.42E+11
RA224	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
RA225	5.17E+11	9.35E+11	1.15E+12	1.33E+12	1.35E+12	1.27E+12	9.24E+11	6.69E+11	3.24E+11	1.69E+11	6.41E+10
RA226	3.48E+12	4.97E+12	5.71E+12	6.27E+12	6.49E+12	6.61E+12	6.88E+12	6.88E+12	6.71E+12	6.71E+12	6.69E+12
RA228	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
AC225	5.17E+11	9.35E+11	1.15E+12	1.33E+12	1.35E+12	1.27E+12	9.24E+11	6.69E+11	3.24E+11	1.69E+11	6.41E+10
AC227	2.09E+11	2.40E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.43E+11	2.43E+11	2.42E+11
AC228	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
TH227	2.06E+11	2.36E+11	2.41E+11	2.41E+11	2.41E+11	2.41E+11	2.41E+11	2.40E+11	2.40E+11	2.39E+11	2.39E+11
TH228	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
TH229	5.17E+11	9.35E+11	1.15E+12	1.33E+12	1.35E+12	1.27E+12	9.24E+11	6.69E+11	3.24E+11	1.69E+11	6.41E+10
TH230	3.43E+12	4.94E+12	5.67E+12	6.25E+12	6.47E+12	6.61E+12	6.88E+12	6.88E+12	6.71E+12	6.71E+12	6.69E+12
TH231	2.42E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.43E+11	2.43E+11	2.42E+11
TH232	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11	2.30E+11
TH234	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.69E+12
PA231	2.09E+11	2.40E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.43E+11	2.43E+11	2.42E+11
PA233	1.58E+12	1.53E+12	1.48E+12	1.39E+12	1.30E+12	1.18E+12	8.55E+11	6.19E+11	3.24E+11	1.69E+11	6.41E+10
PA234M	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.69E+12
PA234	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.71E+09	8.70E+09	8.70E+09
U 233	5.66E+11	9.17E+11	1.13E+12	1.30E+12	1.32E+12	1.25E+12	9.24E+11	6.68E+11	3.24E+11	1.69E+11	6.41E+10
U 234	5.86E+12	6.07E+12	6.22E+12	6.43E+12	6.55E+12	6.64E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.69E+12
U 235	2.42E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.44E+11	2.43E+11	2.43E+11	2.42E+11

U 236	1.02E+12	1.01E+12	1.01E+12	1.00E+12	9.98E+11	9.89E+11	9.60E+11	9.32E+11	8.78E+11	8.28E+11	7.58E+11
U 237	5.04E+02	1.45E-01	4.17E-05	3.45E-12	2.85E-19	6.79E-30	0.0	0.0	0.0	0.0	0.0
U 238	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.70E+12	6.69E+12
U 240	3.59E+02	6.30E+02	8.51E+02	1.18E+03	1.39E+03	1.59E+03	1.78E+03	1.79E+03	1.76E+03	1.73E+03	1.69E+03
NP237	1.58E+12	1.53E+12	1.48E+12	1.39E+12	1.30E+12	1.18E+12	8.55E+11	6.19E+11	3.24E+11	1.69E+11	6.41E+10
NP239	1.90E+05	1.09E+05	1.09E+05	1.08E+05	1.07E+05	1.05E+05	1.01E+05	9.63E+04	8.81E+04	8.06E+04	7.06E+04
NP240M	3.59E+02	6.30E+02	8.51E+02	1.18E+03	1.39E+03	1.59E+03	1.78E+03	1.79E+03	1.76E+03	1.73E+03	1.69E+03
PU239	7.30E+13	4.10E+12	2.30E+11	7.26E+08	2.39E+06	1.06E+05	1.01E+05	9.63E+04	8.81E+04	8.06E+04	7.06E+04
PU240	5.25E+10	1.31E+06	8.84E+02	1.18E+03	1.39E+03	1.59E+03	1.78E+03	1.79E+03	1.76E+03	1.73E+03	1.69E+03
PU241	2.02E+07	5.80E+03	1.67E+00	1.38E-07	1.14E-14	2.72E-25	0.0	0.0	0.0	0.0	0.0
PU242	3.68E+12	3.08E+12	2.57E+12	1.80E+12	1.26E+12	7.34E+11	1.22E+11	2.04E+10	5.68E+08	1.58E+07	7.33E+04
PU243	1.10E+05	1.09E+05	1.09E+05	1.08E+05	1.07E+05	1.05E+05	1.01E+05	9.63E+04	8.81E+04	8.06E+04	7.06E+04
PU244	3.59E+02	6.31E+02	8.52E+02	1.18E+03	1.40E+03	1.59E+03	1.78E+03	1.79E+03	1.76E+03	1.73E+03	1.69E+03
AM241	2.02E+07	6.11E+03	1.76E+00	1.45E-07	1.20E-14	2.86E-25	0.0	0.0	0.0	0.0	0.0
AM243	1.90E+05	1.09E+05	1.09E+05	1.08E+05	1.07E+05	1.05E+05	1.01E+05	9.63E+04	8.81E+04	8.06E+04	7.06E+04
CM245	2.01E+07	5.79E+03	1.67E+00	1.38E-07	1.14E-14	2.71E-25	0.0	0.0	0.0	0.0	0.0
CM246	1.13E+04	4.92E-03	2.14E-09	4.06E-22	7.68E-35	6.33E-54	0.0	0.0	0.0	0.0	0.0
CM247	1.10E+05	1.09E+05	1.09E+05	1.08E+05	1.07E+05	1.05E+05	1.01E+05	9.63E+04	8.81E+04	8.06E+04	7.06E+04
CM248	3.91E+05	3.19E+05	2.60E+05	1.73E+05	1.15E+05	6.22E+04	8.06E+03	1.04E+03	1.75E+01	2.94E-01	6.39E-04
TOTAL	1.51E+14	1.00E+14	1.06E+14	1.12E+14	1.14E+14	1.13E+14	1.12E+14	1.09E+14	1.03E+14	1.02E+14	1.00E+14

ACTINIDES

 NUCLIDE THERMAL POWER, WATTS
 BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
TL207	1.66E-02	1.90E-02	1.93E-02	1.93E-02	1.93E-02	1.93E-02	1.93E-02	1.93E-02	1.93E-02	1.92E-02	1.92E-02
TL208	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.25E-02	5.26E-02	5.26E-02	5.26E-02	5.26E-02	5.26E-02
TL209	5.11E-03	9.23E-03	1.14E-02	1.31E-02	1.33E-02	1.26E-02	9.13E-03	6.61E-03	3.20E-03	1.67E-03	6.34E-04
PB209	1.61E-02	2.90E-02	3.59E-02	4.12E-02	4.20E-02	3.95E-02	2.87E-02	2.08E-02	1.01E-02	5.27E-03	1.99E-03
PB210	2.18E-02	3.12E-02	3.58E-02	3.93E-02	4.07E-02	4.14E-02	4.31E-02	4.31E-02	4.20E-02	4.20E-02	4.19E-02
PB211	1.69E-02	1.94E-02	1.98E-02	1.98E-02	1.98E-02	1.98E-02	1.98E-02	1.97E-02	1.97E-02	1.97E-02	1.96E-02
PB212	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.19E-02	1.19E-02
PB214	3.00E-01	4.29E-01	4.92E-01	5.40E-01	5.59E-01	5.70E-01	5.93E-01	5.93E-01	5.78E-01	5.78E-01	5.77E-01
BI210	2.17E-01	3.10E-01	3.56E-01	3.91E-01	4.04E-01	4.12E-01	4.29E-01	4.29E-01	4.18E-01	4.18E-01	4.17E-01
BI211	2.26E-01	2.59E-01	2.63E-01	2.64E-01	2.63E-01	2.63E-01	2.63E-01	2.63E-01	2.62E-01	2.62E-01	2.61E-01
BI212	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01
BI213	5.87E-02	1.06E-01	1.31E-01	1.51E-01	1.53E-01	1.45E-01	1.05E-01	7.60E-02	3.68E-02	1.93E-02	7.29E-03
BI214	1.20E+00	1.72E+00	1.98E+00	2.17E+00	2.25E+00	2.29E+00	2.38E+00	2.38E+00	2.32E+00	2.32E+00	2.32E+00
PO210	3.01E+00	4.31E+00	4.95E+00	5.43E+00	5.62E+00	5.73E+00	5.96E+00	5.96E+00	5.81E+00	5.81E+00	5.80E+00
PO211	7.64E-04	8.75E-04	8.90E-04	8.92E-04	8.92E-04	8.92E-04	8.91E-04	8.90E-04	8.88E-04	8.86E-04	8.84E-04
PO212	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01	2.12E-01
PO213	6.91E-01	1.25E+00	1.54E+00	1.77E+00	1.81E+00	1.70E+00	1.24E+00	8.95E-01	4.33E-01	2.27E-01	8.58E-02
PO214	4.36E+00	6.24E+00	7.16E+00	7.87E+00	8.15E+00	8.30E+00	8.63E+00	8.64E+00	8.42E+00	8.42E+00	8.40E+00
PO215	2.52E-01	2.89E-01	2.94E-01	2.95E-01	2.95E-01	2.95E-01	2.94E-01	2.94E-01	2.93E-01	2.93E-01	2.92E-01
PO216	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.47E-01
PO218	3.40E+00	4.87E+00	5.59E+00	6.14E+00	6.36E+00	6.48E+00	6.74E+00	6.74E+00	6.57E+00	6.57E+00	6.56E+00
AT217	5.96E-01	1.08E+00	1.33E+00	1.53E+00	1.56E+00	1.47E+00	1.07E+00	7.72E-01	3.74E-01	1.95E-01	7.40E-02
RN219	2.33E-01	2.67E-01	2.71E-01	2.72E-01	2.72E-01	2.72E-01	2.72E-01	2.71E-01	2.71E-01	2.70E-01	2.69E-01
RN220	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.36E-01
RN222	3.11E+00	4.45E+00	5.11E+00	5.61E+00	5.81E+00	5.92E+00	6.16E+00	6.16E+00	6.01E+00	6.01E+00	6.00E+00
FR221	5.35E-01	9.67E-01	1.19E+00	1.37E+00	1.40E+00	1.32E+00	9.56E-01	6.92E-01	3.35E-01	1.75E-01	6.64E-02
FR223	2.06E-04	2.36E-04	2.40E-04	2.40E-04	2.40E-04	2.40E-04	2.40E-04	2.40E-04	2.39E-04	2.39E-04	2.38E-04
RA223	2.00E-01	2.30E-01	2.34E-01	2.34E-01	2.34E-01	2.34E-01	2.34E-01	2.34E-01	2.33E-01	2.33E-01	2.32E-01
RA224	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.13E-01	2.14E-01	2.14E-01	2.14E-01	2.14E-01
RA225	9.80E-03	1.77E-02	2.19E-02	2.51E-02	2.56E-02	2.41E-02	1.75E-02	1.27E-02	6.14E-03	3.21E-03	1.22E-03
RA226	2.71E+00	3.88E+00	4.45E+00	4.89E+00	5.06E+00	5.16E+00	5.37E+00	5.37E+00	5.24E+00	5.23E+00	5.22E+00
RA228	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.79E-04	4.80E-04	4.80E-04	4.80E-04
AC225	4.91E-01	8.89E-01	1.10E+00	1.26E+00	1.28E+00	1.21E+00	8.79E-01	6.36E-01	3.08E-01	1.61E-01	6.10E-02
AC227	2.74E-03	3.14E-03	3.19E-03	3.20E-03	3.20E-03	3.20E-03	3.19E-03	3.19E-03	3.19E-03	3.18E-03	3.17E-03
AC228	5.37E-02	5.37E-02	5.37E-02	5.38E-02	5.38E-02	5.38E-02	5.38E-02	5.38E-02	5.38E-02	5.38E-02	5.38E-02
TH227	2.03E-01	2.33E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.36E-01	2.36E-01	2.35E-01
TH228	2.03E-01	2.03E-01	2.03E-01	2.04E-01	2.04E-01	2.04E-01	2.04E-01	2.04E-01	2.04E-01	2.04E-01	2.04E-01
TH229	4.28E-01	7.74E-01	9.56E-01	1.10E+00	1.12E+00	1.05E+00	7.65E-01	5.54E-01	2.68E-01	1.40E-01	5.31E-02
TH230	2.62E+00	3.78E+00	4.33E+00	4.78E+00	4.94E+00	5.05E+00	5.26E+00	5.26E+00	5.13E+00	5.13E+00	5.12E+00
TH231	3.67E-03	3.71E-03	3.71E-03	3.71E-03	3.71E-03	3.71E-03	3.70E-03	3.70E-03	3.69E-03	3.68E-03	3.67E-03
TH232	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.51E-01	1.51E-01	1.51E-01	1.51E-01
TH234	7.35E-02	7.34E-02	7.34E-02	7.34E-02	7.34E-02	7.34E-02	7.34E-02	7.34E-02	7.34E-02	7.34E-02	7.33E-02
PA231	1.73E-01	1.98E-01	2.01E-01	2.02E-01	2.02E-01	2.02E-01	2.01E-01	2.01E-01	2.00E-01	2.00E-01	2.00E-01
PA233	9.71E-02	9.40E-02	9.10E-02	8.53E-02	7.99E-02	7.25E-02	5.25E-02	3.80E-02	1.99E-02	1.04E-02	3.93E-03
PA234M	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.95E-01	8.94E-01	8.94E-01
PA234	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03	3.38E-03
U 233	4.45E-01	7.21E-01	8.85E-01	1.02E+00	1.04E+00	9.87E-01	7.26E-01	5.26E-01	2.55E-01	1.33E-01	5.04E-02
U 234	4.56E+00	4.72E+00	4.84E+00	5.00E+00	5.09E+00	5.16E+00	5.21E+00	5.21E+00	5.21E+00	5.21E+00	5.21E+00
U 235	1.81E-01	1.83E-01	1.83E-01	1.83E-01	1.83E-01	1.83E-01	1.83E-01	1.83E-01	1.82E-01	1.82E-01	1.82E-01

U 236	7.44E-01	7.41E-01	7.39E-01	7.35E-01	7.30E-01	7.24E-01	7.03E-01	6.82E-01	6.43E-01	6.06E-01	5.55E-01
U 237	2.58E-11	7.42E-15	2.13E-18	1.76E-25	1.46E-32	3.47E-43	0.0	0.0	0.0	0.0	0.0
U 238	4.59E+00	4.59E+00	4.59E+00	4.59E+00	4.58E+00	4.58E+00	4.58E+00	4.58E+00	4.58E+00	4.58E+00	4.58E+00
U 240	7.95E-12	1.40E-11	1.89E-11	2.61E-11	3.09E-11	3.52E-11	3.94E-11	3.97E-11	3.91E-11	3.84E-11	3.75E-11
NP237	1.26E+00	1.22E+00	1.18E+00	1.10E+00	1.03E+00	9.39E-01	6.79E-01	4.91E-01	2.57E-01	1.35E-01	5.09E-02
NP239	1.24E-08	7.13E-09	7.10E-09	7.03E-09	6.97E-09	6.88E-09	6.58E-09	6.29E-09	5.76E-09	5.27E-09	4.61E-09
NP240M	5.62E-11	9.87E-11	1.33E-10	1.84E-10	2.18E-10	2.49E-10	2.78E-10	2.80E-10	2.76E-10	2.71E-10	2.65E-10
PU239	6.13E+01	3.44E+00	1.93E-01	6.10E-04	2.01E-06	8.88E-08	8.46E-08	8.09E-08	7.40E-08	6.77E-08	5.93E-08
PU240	4.42E-02	1.10E-06	7.44E-10	9.92E-10	1.17E-09	1.34E-09	1.50E-09	1.51E-09	1.48E-09	1.46E-09	1.42E-09
PU241	1.68E-08	4.83E-12	1.39E-15	1.15E-22	9.51E-30	2.26E-40	0.0	0.0	0.0	0.0	0.0
PU242	2.94E+00	2.46E+00	2.05E+00	1.44E+00	1.00E+00	5.86E-01	9.78E-02	1.63E-02	4.54E-04	1.26E-05	5.85E-08
PU243	3.42E-09	3.40E-09	3.39E-09	3.36E-09	3.33E-09	3.28E-09	3.14E-09	3.00E-09	2.75E-09	2.52E-09	2.20E-09
PU244	2.81E-10	4.94E-10	6.68E-10	9.24E-10	1.09E-09	1.25E-09	1.39E-09	1.40E-09	1.38E-09	1.36E-09	1.33E-09
AM241	1.82E-05	5.52E-09	1.59E-12	1.31E-19	1.09E-26	2.58E-37	0.0	0.0	0.0	0.0	0.0
AM243	1.65E-07	9.51E-08	9.46E-08	9.38E-08	9.30E-08	9.17E-08	8.77E-08	8.39E-08	7.68E-08	7.03E-08	6.15E-08
CM245	1.81E-05	5.22E-09	1.50E-12	1.24E-19	1.03E-26	2.44E-37	0.0	0.0	0.0	0.0	0.0
CM246	1.00E-08	4.36E-15	1.90E-21	3.59E-34	6.80E-47	5.60E-66	0.0	0.0	0.0	0.0	0.0
CM247	9.39E-08	9.35E-08	9.31E-08	9.23E-08	9.15E-08	9.03E-08	8.63E-08	8.26E-08	7.56E-08	6.91E-08	6.05E-08
CM248	1.32E-06	1.07E-06	8.75E-07	5.81E-07	3.86E-07	2.09E-07	2.71E-08	3.51E-09	5.89E-11	9.89E-13	2.15E-15
TOTAL	1.04E+02	5.73E+01	5.95E+01	6.33E+01	6.44E+01	6.42E+01	6.29E+01	6.10E+01	5.75E+01	5.63E+01	5.54E+01

NUCLIDE CONCENTRATIONS, GRAM ATOMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
SE 79	2.03E-01	6.98E-02	2.40E-02	2.84E-03	3.37E-04	1.37E-05	3.19E-10	7.44E-15	4.03E-24	2.19E-33	2.76E-47
BR 79	3.87E-01	5.20E-01	5.65E-01	5.86E-01	5.89E-01	5.89E-01	5.89E-01	5.89E-01	5.89E-01	5.89E-01	5.89E-01
RB 87	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.49E-01	2.48E-01
SR 87	3.67E-07	7.33E-07	1.10E-06	1.83E-06	2.57E-06	3.67E-06	7.33E-06	1.10E-05	1.83E-05	2.57E-05	3.67E-05
Y 89	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07	6.38E-07
ZR 90	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02
ZR 93	1.11E+02	1.06E+02	1.01E+02	9.22E+01	8.42E+01	7.35E+01	4.67E+01	2.97E+01	1.20E+01	4.85E+00	1.25E+00
NB 93	5.12E+00	1.00E+01	1.47E+01	2.34E+01	3.14E+01	4.21E+01	6.89E+01	8.59E+01	1.04E+02	1.11E+02	1.14E+02
NB 93M	9.34E-04	8.92E-04	8.53E-04	7.79E-04	7.11E-04	6.21E-04	3.95E-04	2.51E-04	1.01E-04	4.10E-05	1.05E-05
NB 94	2.27E-04	7.48E-06	2.46E-07	2.67E-10	2.89E-13	1.03E-17	1.54E-32	2.30E-47	0.0	0.0	0.0
MO 95	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03
TC 99	3.02E+02	2.18E+02	1.58E+02	8.23E+01	4.29E+01	1.62E+01	6.25E-01	2.42E-02	3.61E-05	5.39E-08	3.11E-12
RU 99	1.16E+02	2.00E+02	2.61E+02	3.36E+02	3.76E+02	4.03E+02	4.18E+02	4.19E+02	4.19E+02	4.19E+02	4.19E+02
RH103	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09	6.10E-09
PD106	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01	7.24E-01
PD107	6.32E-03	6.25E-03	6.18E-03	6.05E-03	5.92E-03	5.74E-03	5.16E-03	4.64E-03	3.75E-03	3.03E-03	2.20E-03
PD108	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03	1.49E-03
PD110	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08	9.49E-08
AG107	6.77E-05	1.35E-04	2.01E-04	3.32E-04	4.59E-04	6.46E-04	1.23E-03	1.75E-03	2.64E-03	3.36E-03	4.19E-03
CD108	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04
CD110	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03	2.38E-03
SN126	1.36E+00	6.81E-01	3.40E-01	8.51E-02	2.13E-02	2.66E-03	2.61E-06	2.55E-09	2.44E-15	2.34E-21	2.19E-30
SB126	6.47E-08	3.23E-08	1.62E-08	4.05E-09	1.01E-09	1.27E-10	1.24E-13	1.21E-16	1.16E-22	1.11E-28	1.04E-37
SB126M	4.92E-10	2.46E-10	1.23E-10	3.08E-11	7.69E-12	9.62E-13	9.42E-16	9.22E-19	8.83E-25	8.46E-31	7.93E-40
TR125	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01	5.11E-01
TE126	1.36E+00	2.04E+00	2.38E+00	2.64E+00	2.70E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00
I 129	2.95E+04	2.94E+04	2.93E+04	2.90E+04	2.88E+04	2.84E+04	2.72E+04	2.60E+04	2.38E+04	2.18E+04	1.91E+04
XE129	1.31E+02	2.61E+02	3.90E+02	6.48E+02	9.03E+02	1.28E+03	2.51E+03	3.68E+03	5.88E+03	7.89E+03	1.06E+04
XE131	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11
CS135	6.41E+01	6.22E+01	6.04E+01	5.68E+01	5.35E+01	4.89E+01	3.62E+01	2.68E+01	1.46E+01	8.02E+00	3.25E+00
BA134	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00
BA135	1.96E+00	3.86E+00	5.71E+00	9.24E+00	1.26E+01	1.72E+01	2.99E+01	3.93E+01	5.14E+01	5.81E+01	6.28E+01
BA137	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02	2.27E+02
CE140	7.82E-12	1.56E-11	2.35E-11	3.91E-11	5.48E-11	7.82E-11	1.56E-10	2.35E-10	3.91E-10	5.48E-10	7.82E-10
ND143	1.26E-06	2.51E-06	3.77E-06	6.28E-06	8.79E-06	1.26E-05	2.51E-05	3.77E-05	6.28E-05	8.79E-05	1.26E-04
ND144	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01	2.37E-01
SM147	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00	1.94E+00
SM148	2.45E-11	4.90E-11	7.35E-11	1.23E-10	1.72E-10	2.45E-10	4.90E-10	7.35E-10	1.23E-09	1.72E-09	2.45E-09
SM152	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02	8.16E-02
EUI51	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02	5.03E-02
GD152	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02	3.82E-02
GD154	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00	2.60E+00
GD155	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01
TOTAL	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04	3.06E+04

NUCLIDE CONCENTRATIONS, GRAMS
BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
SE 79	1.60E+01	5.51E+00	1.90E+00	2.25E-01	2.66E-02	1.08E-03	2.52E-08	5.88E-13	3.19E-22	1.73E-31	2.18E-45
BR 79	3.05E+01	4.10E+01	4.47E+01	4.63E+01	4.65E+01	4.66E+01	4.66E+01	4.66E+01	4.66E+01	4.66E+01	4.66E+01
RB 87	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01	2.16E+01
SR 87	3.19E-05	6.38E-05	9.57E-05	1.60E-04	2.23E-04	3.19E-04	6.38E-04	9.57E-04	1.60E-03	2.23E-03	3.19E-03
Y 89	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05	5.67E-05
ZR 90	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03	9.91E+03
ZR 93	1.03E+04	9.82E+03	9.39E+03	8.58E+03	7.83E+03	6.84E+03	4.35E+03	2.76E+03	1.12E+03	4.51E+02	1.16E+02
NB 93	4.76E+02	9.32E+02	1.37E+03	2.18E+03	2.92E+03	3.92E+03	6.41E+03	7.99E+03	9.64E+03	1.03E+04	1.06E+04
NB 93M	8.68E-02	8.30E-02	7.93E-02	7.24E-02	6.62E-02	5.78E-02	3.67E-02	2.33E-02	9.43E-03	3.81E-03	9.80E-04
NB 94	2.14E-02	7.03E-04	2.31E-05	2.51E-08	2.72E-11	9.69E-16	1.45E-30	2.16E-45	0.0	0.0	0.0
MO 95	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01	4.96E-01
TC 99	2.99E+04	2.16E+04	1.56E+04	8.15E+03	4.25E+03	1.60E+03	6.19E+01	2.39E+00	3.57E-03	5.34E-06	3.08E-10
RU 99	1.15E+04	1.98E+04	2.58E+04	3.33E+04	3.72E+04	3.98E+04	4.14E+04	4.14E+04	4.15E+04	4.15E+04	4.15E+04
RH103	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07	6.28E-07
PD106	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01	7.67E+01
PD107	6.76E-01	6.69E-01	6.62E-01	6.48E-01	6.34E-01	6.14E-01	5.52E-01	4.96E-01	4.01E-01	3.24E-01	2.35E-01
PD108	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01	1.61E-01
PD110	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05
AG107	7.25E-03	1.44E-02	2.15E-02	3.55E-02	4.92E-02	6.91E-02	1.31E-01	1.87E-01	2.82E-01	3.59E-01	4.48E-01
CD108	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02
CD110	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01	2.62E-01
SN126	1.72E+02	8.58E+01	4.29E+01	1.07E+01	2.68E+00	3.36E-01	3.28E-04	3.21E-07	3.08E-13	2.95E-19	2.76E-28
SB126	8.15E-06	4.08E-06	2.04E-06	5.10E-07	1.27E-07	1.59E-08	1.56E-11	1.53E-14	1.46E-20	1.40E-26	1.31E-35
SB126M	6.20E-08	3.10E-08	1.55E-08	3.88E-09	9.69E-10	1.21E-10	1.19E-13	1.16E-16	1.11E-22	1.07E-28	9.99E-38
TE125	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01	6.38E+01
TE126	1.71E+02	2.57E+02	3.00E+02	3.32E+02	3.40E+02	3.43E+02	3.43E+02	3.43E+02	3.43E+02	3.43E+02	3.43E+02
I 129	3.81E+06	3.79E+06	3.78E+06	3.74E+06	3.71E+06	3.66E+06	3.50E+06	3.35E+06	3.07E+06	2.81E+06	2.46E+06
XE129	1.69E+04	3.36E+04	5.04E+04	8.36E+04	1.16E+05	1.65E+05	3.23E+05	4.75E+05	7.58E+05	1.02E+06	1.37E+06
XE131	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09	3.27E-09
CS135	8.66E+03	8.40E+03	8.15E+03	7.67E+03	7.22E+03	6.60E+03	4.88E+03	3.61E+03	1.98E+03	1.08E+03	4.38E+02
BA134	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02	4.18E+02
BA135	2.65E+02	5.22E+02	7.71E+02	1.25E+03	1.70E+03	2.32E+03	4.04E+03	5.31E+03	6.94E+03	7.84E+03	8.48E+03
BA137	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04	3.11E+04
CE140	1.10E-09	2.19E-09	3.29E-09	5.48E-09	7.67E-09	1.10E-08	2.19E-08	3.29E-08	5.48E-08	7.67E-08	1.10E-07
ND143	1.80E-04	3.59E-04	5.39E-04	8.98E-04	1.26E-03	1.80E-03	3.59E-03	5.39E-03	8.98E-03	1.26E-02	1.80E-02
ND144	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01	3.41E+01
SM147	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02	2.85E+02
SM148	3.63E-09	7.26E-09	1.09E-08	1.81E-08	2.54E-08	3.63E-08	7.26E-08	1.09E-07	1.81E-07	2.54E-07	3.63E-07
SM152	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01
EU151	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00	7.60E+00
GD152	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00	5.81E+00
GD154	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02	4.01E+02
GD155	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01	2.03E+01
TOTAL	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06

FISSION PRODUCTS

 NUCLIDE RADIOACTIVITY, BECQUEREL
 BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
SE 79	4.13E+10	1.42E+10	4.89E+09	5.79E+08	6.86E+07	2.80E+06	6.51E+01	1.52E-03	8.22E-13	4.45E-22	5.62E-36
RB 87	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04	7.00E+04
ZR 93	9.56E+11	9.14E+11	8.73E+11	7.98E+11	7.29E+11	6.36E+11	4.04E+11	2.57E+11	1.04E+11	4.20E+10	1.08E+10
NB 93M	9.08E+11	8.68E+11	8.30E+11	7.58E+11	6.92E+11	6.04E+11	3.84E+11	2.44E+11	9.87E+10	3.99E+10	1.03E+10
NB 94	1.48E+08	4.88E+06	1.61E+05	1.74E+02	1.89E-01	6.72E-06	1.00E-20	1.50E-35	0.0	0.0	0.0
TC 99	1.88E+13	1.36E+13	9.80E+12	5.11E+12	2.67E+12	1.01E+12	3.88E+10	1.50E+09	2.24E+06	3.35E+03	1.93E-01
PD107	1.29E+07	1.27E+07	1.26E+07	1.23E+07	1.21E+07	1.17E+07	1.05E+07	9.44E+06	7.63E+06	6.16E+06	4.48E+06
SN126	1.80E+11	9.01E+10	4.50E+10	1.13E+10	2.82E+09	3.52E+08	3.45E+05	3.38E+02	3.23E-04	3.10E-10	2.90E-19
SB126	2.52E+10	1.26E+10	6.31E+09	1.58E+09	3.95E+08	4.93E+07	4.83E+04	4.73E+01	4.53E-05	4.34E-11	4.06E-20
SB126M	1.80E+11	9.01E+10	4.50E+10	1.13E+10	2.82E+09	3.52E+08	3.45E+05	3.38E+02	3.23E-04	3.10E-10	2.90E-19
I 129	2.49E+13	2.48E+13	2.47E+13	2.45E+13	2.42E+13	2.39E+13	2.29E+13	2.19E+13	2.01E+13	1.84E+13	1.61E+13
CS135	3.69E+11	3.58E+11	3.47E+11	3.27E+11	3.08E+11	2.81E+11	2.08E+11	1.54E+11	8.43E+10	4.61E+10	1.87E+10
ND144	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00
SM147	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05	2.40E+05
SM148	4.05E-11	8.11E-11	1.22E-10	2.03E-10	2.84E-10	4.05E-10	8.11E-10	1.22E-09	2.03E-09	2.84E-09	4.05E-09
GD152	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00
TOTAL	4.63E+13	4.07E+13	3.66E+13	3.15E+13	2.87E+13	2.65E+13	2.39E+13	2.26E+13	2.03E+13	1.85E+13	1.61E+13

FISSION PRODUCTS

 NUCLIDE THERMAL POWER, WATTS
 BASIS = KUMULIERTES GESAMTINVENTAR - KONRAD

	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
SE 79	2.78E-04	9.57E-05	3.29E-05	3.90E-06	4.62E-07	1.88E-08	4.38E-13	1.02E-17	5.53E-27	3.00E-36	3.78E-50
RB 87	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09	1.58E-09
ZR 93	3.00E-03	2.87E-03	2.74E-03	2.50E-03	2.29E-03	2.00E-03	1.27E-03	8.07E-04	3.26E-04	1.32E-04	3.39E-05
NB 93M	4.35E-03	4.16E-03	3.97E-03	3.63E-03	3.32E-03	2.89E-03	1.84E-03	1.17E-03	4.73E-04	1.91E-04	4.91E-05
NB 94	4.08E-05	1.34E-06	4.42E-08	4.79E-11	5.19E-14	1.85E-18	2.76E-33	4.13E-48	0.0	0.0	0.0
TC 99	2.55E-01	1.84E-01	1.33E-01	6.93E-02	3.62E-02	1.36E-02	5.27E-04	2.03E-05	3.04E-08	4.54E-11	2.62E-15
PD107	2.06E-08	2.04E-08	2.02E-08	1.98E-08	1.93E-08	1.87E-08	1.68E-08	1.51E-08	1.22E-08	9.87E-09	7.17E-09
SN126	6.07E-03	3.04E-03	1.52E-03	3.80E-04	9.50E-05	1.19E-05	1.16E-08	1.14E-11	1.09E-17	1.04E-23	9.79E-33
SB126	1.26E-02	6.30E-03	3.15E-03	7.88E-04	1.97E-04	2.46E-05	2.41E-08	2.36E-11	2.26E-17	2.17E-23	2.03E-32
SB126M	6.20E-02	3.10E-02	1.55E-02	3.88E-03	9.70E-04	1.21E-04	1.19E-07	1.16E-10	1.11E-16	1.07E-22	9.99E-32
I 129	3.11E-01	3.10E-01	3.08E-01	3.06E-01	3.03E-01	2.99E-01	2.86E-01	2.74E-01	2.51E-01	2.29E-01	2.01E-01
CS135	3.33E-03	3.23E-03	3.13E-03	2.95E-03	2.78E-03	2.54E-03	1.88E-03	1.39E-03	7.60E-04	4.16E-04	1.68E-04
SM147	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08	8.87E-08
SM148	1.31E-23	2.62E-23	3.92E-23	6.54E-23	9.16E-23	1.31E-22	2.62E-22	3.92E-22	6.54E-22	9.16E-22	1.31E-21
GD152	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12	1.65E-12
TOTAL	6.57E-01	5.44E-01	4.71E-01	3.89E-01	3.49E-01	3.20E-01	2.92E-01	2.77E-01	2.52E-01	2.30E-01	2.01E-01

***** LIGHT ELEMENTS + ACTINIDES + FISSION PRODUCTS *****

		CONCENTRATIONS ,GRAMATOMS									
TOTAL	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.56E+06	2.57E+06	2.57E+06	2.58E+06	2.58E+06	2.59E+06
		CONCENTRATIONS ,GRAMS									
TOTAL	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08	6.03E+08
		RADIOACTIVITY ,BECQUEREL									
TOTAL	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
	3.87E+14	2.21E+14	1.76E+14	1.49E+14	1.43E+14	1.40E+14	1.36E+14	1.31E+14	1.24E+14	1.20E+14	1.16E+14
		THERMAL POWER ,WATTS									
TOTAL	INITIAL	.200E+6 Y	.300E+6 Y	.500E+6 Y	.700E+6 Y	.100E+7 Y	.200E+7 Y	.300E+7 Y	.500E+7 Y	.700E+7 Y	.100E+8 Y
	1.37E+02	7.15E+01	6.58E+01	6.47E+01	6.49E+01	6.45E+01	6.32E+01	6.13E+01	5.77E+01	5.65E+01	5.56E+01

Tab. 46: Kumulierte Aktivität und Wärmeleistung nicht in KORIGEN enthaltener Nuklide am Ende der Einlagerungsphase (Ende des 22. Jahres)

(nach Behältertypen geordnet)

Kumulierte Aktivität und Wärmeleistung nicht in KORIGEN
enthaltener Nuklide am Ende der Einlagerungsphase
(Ende des 22. Jahres)

Behälter	Kategorie	Nuklid	Aktivität/Bq	Wärmeleistung/W.
Fass, 200 l	L 52010 NRW	Co-57	2,40 E +09	
- " -	L 54020 NRW	"	5,92 E +09	
- " -	U 54050 HOEO	"	3,74 E +11	
- " -	F 52030 KFAO	"	1,54 E +04	
- " -	F 52040 KFKO	"	9,60 E +07	
- " -	F 5208A KFKO	"	1,80 E +12	
- " -	F 54070 KFAO	"	1,41 E +11	
- " -	F 54080 KFKO	"	<u>5,76 E +09</u>	
			2,33 E +12	3,12 E -01
VBA-200 L NB	F 42040 KFAO	Co-57	1,76 E +09	2,36 E -04
VBA-200 L SB	F 4204A KFKO	Co-57	2,97 E +12	
- " -	F 4204B KFKO	"	1,76 E +14	
- " -	F 42070 KFAO	"	3,68 E +11	
- " -	F 4208A KFKO	"	8,00 E +11	
- " -	F 4208B KFKO	"	<u>6,88 E +12</u>	
			1,87 E +14	2,51 E +01
Gußbehälter Typ I, 15/8	S 2401C VAKO	Co-57	6,21 E +05	8,32 E -08
Gußbehälter Typ I, 15/10	S 2401B VAKO	Co-57	6,31 E +08	8,46 E -05

Behälter	Kategorie	Nuklid	Aktivität/Bq	Wärmeleistung/W.
Gußbehälter Typ II, 16/0	S 2401A VAKO	Co-57	1,76 E +07	4,37 E -06
- " -	S 2401D VAKO	"	<u>1,50 E +07</u>	
			3,26 E +07	
Gußbehälter Typ II, 16/4	S 2401E VAKO	Co-57	1,20 E +09	1,61 E -04
Gußbehälter Typ II, 20/7	S 2401B VAKO	Co-57	6,31 E +08	8,46 E -05
Container Stahlblech Typ IV	F 64080 KFKO	Co-57	6,40 E +09	8,58 E -04
Container Beton Typ IV, NB	F 6204A KFKO	Co-57	2,98 E +12	9,15 E -01
- " -	F 6208A KFKO	"	8,40 E +11	
- " -	F 6304A KFKO	"	<u>3,01 E +12</u>	
			6,83 E +12	
Container Beton Typ IV, SB	F 6204B KFKO	Co-57	5,92 E +13	1,66 E +01
- " -	F 6208B KFKO	"	6,72 E +12	
- " -	F 6304B KFKO	"	<u>5,85 E +13</u>	
			1,24 E +14	

Behälter	Kategorie	Nuklid	Aktivität/Bq	Wärmeleistung/W.
Fass, 200 l	U 54050 HOEO	In-111	7,70 E +06	1,05 E -06
- " -	U 54050 HOEO	I - 125	6,73 E +06	1,91 E -07
- " -	U 54050 HOEO	Hg-197	3,74 E +06	2,49 E -07
- " -	U 54050 HOEO	Hg-203	7,70 E +09	6,06 E -04
- " -	U 54050 HOEO	Tl-201	3,74 E +06	2,92 E -07
Gußbehälter Typ II, 16/0	K 24170 HTRO	Hf-175	3,60 E +10	3,52 E -03
Container Stahlblech Typ III	S 64030 KKNO	Ba-133	1,32 E +09	1,10 E -04